

# NEWFIELD



Route #3 Box 3630  
Myton, Utah 84052  
(435) 646-4825, FAX: (435) 646-3031

January 9, 2008

State of Utah  
Division of Oil, Gas & Mining  
Attn: Diana Whitney  
1594 West North Temple - Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

RE: Applications for Permit to Drill

**Mon. Butte Federal I-34-8-16**  
**Mon. Butte Federal N-35-8-16**  
**Mon. Butte Federal O-35-8-16**  
**Greater Boundary II Fed. H-34-8-17**  
**Greater Boundary II Fed. M-34-8-17**  
**Greater Boundary II Fed. N-34-8-17**  
**Pleasant Valley Fed. G-8-9-17**  
**Lone Tree Fed. Q-15-9-17**

**Ashley Federal S-11-9-15**  
**Ashley Federal O-12-9-15**  
**Ashley Federal P-12-9-15**  
**South Wells Draw Fed. X-4-9-16**  
**West Point Fed. P-8-9-16**  
**West Point Fed. Q-8-9-16**  
**Blackjack Fed. O-10-9-17**

Dear Diana:

Enclosed find APD's on the above referenced wells. Our Land Department will send you the required Directional Drill Letters. If you have any questions, feel free to give either Dave Allred or myself a call.

Sincerely,

Mandie Crozier  
Regulatory Specialist

mc  
enclosures

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DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

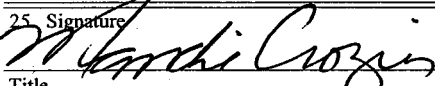
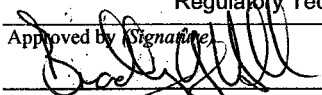
APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

|  |  |   |  |  |
|--|--|---|--|--|
| 1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER   |  |   | 5. Lease Serial No.<br>UTU-16535   |  |
| 1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone |  |   | 6. If Indian, Allottee or Tribe Name<br>N/A                                      |  |
| 2. Name of Operator<br>Newfield Production Company   |  |   | 7. If Unit or CA Agreement, Name and No.<br>Monument Butte                       |  |
| 3a. Address<br>Route #3 Box 3630, Myton UT 84052   |  |   | 8. Lease Name and Well No.<br>Mon. Butte Federal I-34-8-16                       |  |
| 3b. Phone No. (include area code)<br>(435) 646-3721  |  |   | 9. API Well No.<br>43-013-338 71   |  |
| 4. Location of Well (Report location clearly and in accordance with any State requirements. *)<br>At surface NW/NE 657' FNL 1967' FEL<br>At proposed prod. zone 1309' FNL 1334' FEL                                    |  |   | 10. Field and Pool, or Exploratory<br>Monument Butte                             |  |
| 14. Distance in miles and direction from nearest town or post office*<br>Approximatley 10.7 miles southwest of Myton, Utah   |  |   | 11. Sec., T., R., M., or Blk. and Survey or Area<br>Sec. 34, T8S R16E            |  |
| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 1306' f/lse, 1306' f/unit  |  | 16. No. of Acres in lease<br>920.00                       | 17. Spacing Unit dedicated to this well<br>20 Acres                              |  |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1297'   |  | 19. Proposed Depth<br>6470'                               | 20. BLM/BIA Bond No. on file<br>WYB000493  |  |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.)<br>5594' GL  |  | 22. Approximate date work will start*<br>1st Quarter 2008 | 23. Estimated duration<br>Approximately seven (7) days from spud to rig release. |  |
| 24. Attachments  |  |   |  |  |

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification.   |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

|   |   |                  |
|---|---|------------------|
| 25. Signature<br>         | Name (Printed/Typed)<br>Mandie Crozier  | Date<br>12/11/07 |
| Title<br>Regulatory Technician  |   |                  |
| Approved by Signature<br> | Name (Printed/Typed)<br>BRADLEY G. HILL | Date<br>01-31-08 |
| Title<br>Offis ENVIRONMENTAL MANAGER  |   |                  |

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

Surf

576533X

4436 792Y

40.079820

-110.102395

BHL

576727X

4436595Y

40.078027

-110.100138

Federal Approval of this  
Action is Necessary

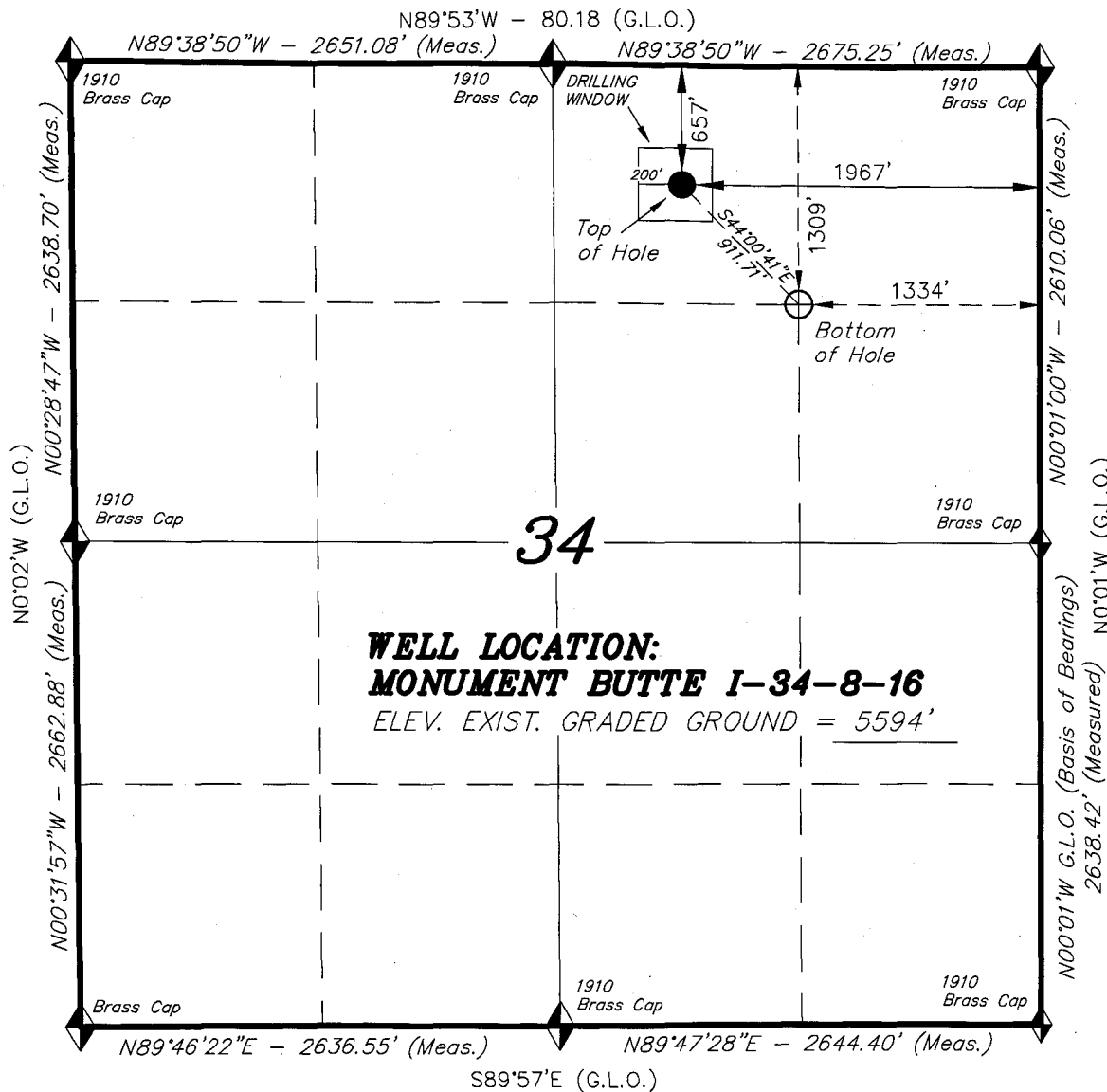
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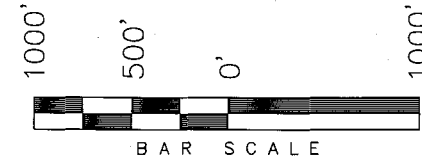
DIV. OF OIL, GAS & MINING

**T8S, R16E, S.L.B.&M.**

**NEWFIELD PRODUCTION COMPANY**

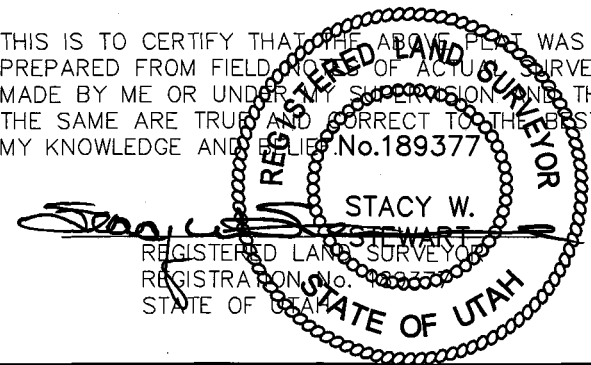


WELL LOCATION, MONUMENT BUTTE  
I-34-8-16, LOCATED AS SHOWN IN THE  
NW 1/4 NE 1/4 OF SECTION 34, T8S,  
R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



**Note:**  
The bottom of hole bears S44°00'41"E  
911.71' from the Well head.

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST OF  
MY KNOWLEDGE AND BELIEF. No.189377



**TRI STATE LAND SURVEYING & CONSULTING**  
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

|                            |                   |
|----------------------------|-------------------|
| DATE SURVEYED:<br>09-21-07 | SURVEYED BY: T.H. |
| DATE DRAWN:<br>10-12-07    | DRAWN BY: F.T.M.  |
| REVISED:                   | SCALE: 1" = 1000' |

**MONUMENT BUTTE I-34-8-16**  
(Surface Location) NAD 83  
LATITUDE = 40° 04' 47.25"  
LONGITUDE = 110° 06' 11.25"

◆ = SECTION CORNERS LOCATED  
BASIS OF ELEV;  
U.S.G.S. 7-1/2 min QUAD (MYTON SE)

**NEWFIELD PRODUCTION COMPANY  
MONUMENT BUTTE FEDERAL #I-34-8-16  
AT SURFACE: NW/NE SECTION 34, T8S, R16E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**DRILLING PROGRAM**

**1. GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

**2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

|             |            |
|-------------|------------|
| Uinta       | 0' – 2410' |
| Green River | 2410'      |
| Wasatch     | 6470'      |

**3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation 2410' – 6470' - Oil

**4. PROPOSED CASING PROGRAM**

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

**5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

Please refer to the Monument Butte Field SOP. See Exhibit "C".

**6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

Please refer to the Monument Butte Field SOP.

**7. AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Please refer to the Monument Butte Field SOP.

**8. TESTING, LOGGING AND CORING PROGRAMS:**

Please refer to the Monument Butte Field SOP.

**9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

The anticipated maximum bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered.

**10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

Please refer to the Monument Butte Field SOP.



**Scientific Drilling**  
Rocky Mountain Operations

Project: Duchesne County, UT  
Site: Monument Butte I-34-8-16  
Well: OH  
Wellbore: OH  
Design: Plan #1

**NEWFIELD**



**Newfield Exploration Co.**

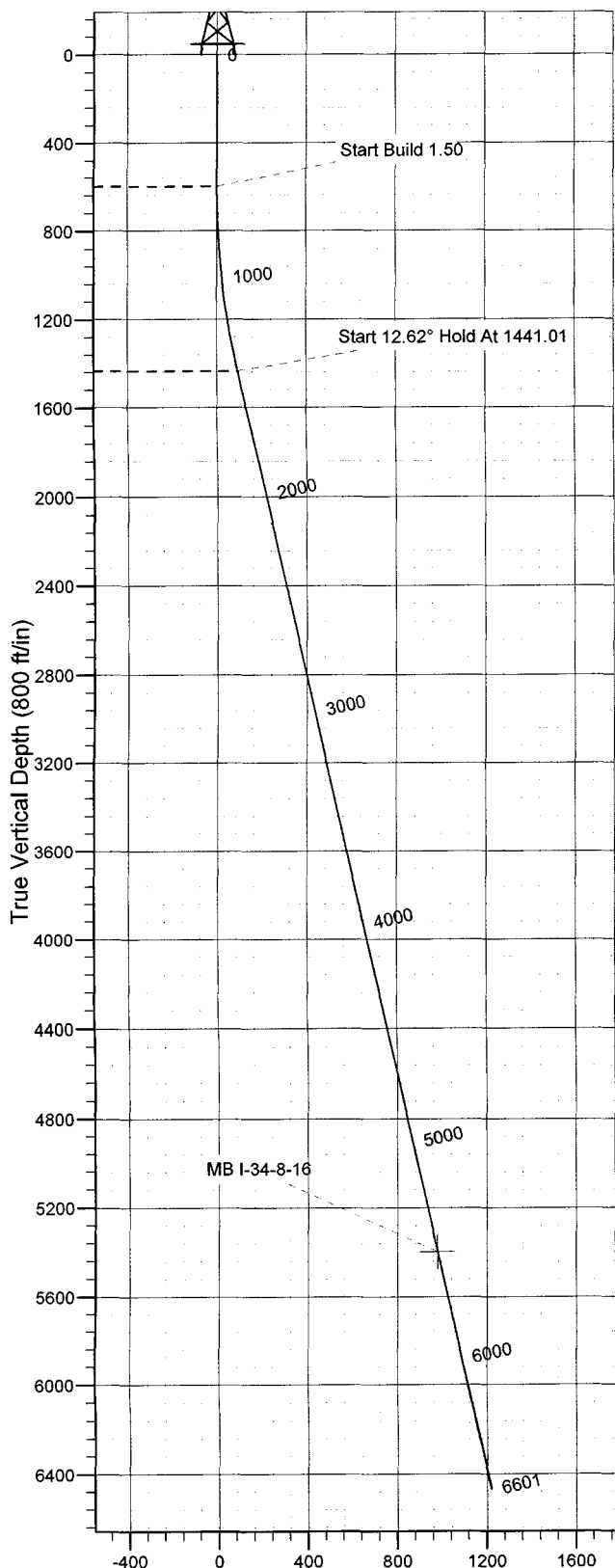
WELL DETAILS: OH

GL 5594' & RKB 12' @ 5606.00ft (NDSI 2) 5594.00  
+N/-S +E/-W Northing Easting Latitude Longitude Slot  
0.00 0.00 7200854.55 2031265.66 40° 4' 47.250 N 110° 6' 11.250 W

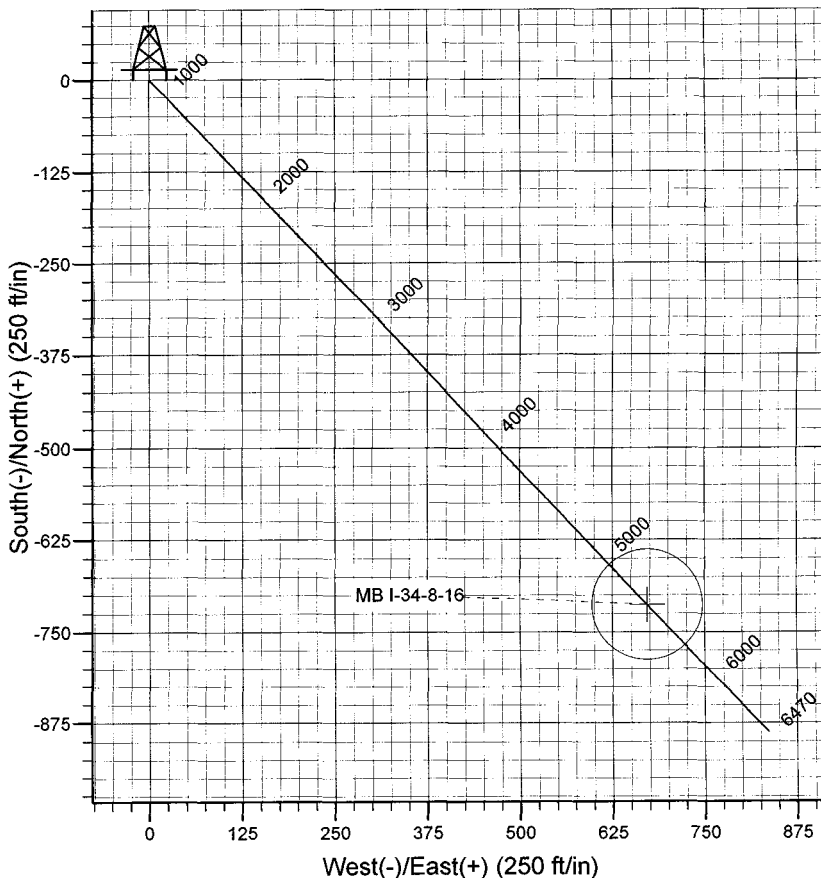


Azimuths to True North  
Magnetic North: 11.77°

Magnetic Field  
Strength: 52652.3snT  
Dip Angle: 65.91°  
Date: 2007-12-12  
Model: IGRF2005-10



Vertical Section at 136.70° (800 ft/in)



FORMATION TOP DETAILS

Plan: Plan #1 (OH/OH)

Created By: Rex Hall Date: 2007-12-12

PROJECT DETAILS: Duchesne County, UT

Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Utah Central Zone

System Datum: Mean Sea Level  
Local North: True

SECTION DETAILS

| Sec | MD      | Inc   | Azi    | TVD     | +N/-S   | +E/-W  | DLeg | TFace  | VSec    | Target       |
|-----|---------|-------|--------|---------|---------|--------|------|--------|---------|--------------|
| 1   | 0.00    | 0.00  | 0.00   | 0.00    | 0.00    | 0.00   | 0.00 | 0.00   | 0.00    |              |
| 2   | 600.00  | 0.00  | 0.00   | 600.00  | 0.00    | 0.00   | 0.00 | 0.00   | 0.00    |              |
| 3   | 1441.01 | 12.62 | 136.70 | 1434.23 | -67.10  | 63.25  | 1.50 | 136.70 | 92.21   |              |
| 4   | 5504.88 | 12.62 | 136.70 | 5400.00 | -713.00 | 672.00 | 0.00 | 0.00   | 979.77  | MB I-34-8-16 |
| 5   | 6601.35 | 12.62 | 136.70 | 6470.00 | -887.26 | 836.25 | 0.00 | 0.00   | 1219.24 |              |

# **Newfield Exploration Co.**

**Duchesne County, UT**

**Monument Butte I-34-8-16**

**OH**

**OH**

**Plan: Plan #1**

## **Standard Planning Report**

**12 December, 2007**

# Scientific Drilling

## Planning Report

**Database:** EDM\_OCT\_1  
**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT  
**Site:** Monument Butte I-34-8-16  
**Well:** OH  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well OH  
**TVD Reference:** GL 5594' & RKB 12' @ 5606.00ft (NDSI 2)  
**MD Reference:** GL 5594' & RKB 12' @ 5606.00ft (NDSI 2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

|                      |                           |
|----------------------|---------------------------|
| <b>Project</b>       | Duchesne County, UT       |
| <b>Map System:</b>   | US State Plane 1983       |
| <b>Geo Datum:</b>    | North American Datum 1983 |
| <b>Map Zone:</b>     | Utah Central Zone         |
| <b>System Datum:</b> | Mean Sea Level            |

|                              |   |                     |                 |                          |                  |
|------------------------------|---|---------------------|-----------------|--------------------------|------------------|
| <b>Site</b>                  | Monument Butte I-34-8-16, Sec 34 T8S R16E |                     |                 |                          |                  |
| <b>Site Position:</b>        |   | <b>Northing:</b>    | 7,200,854.55 ft | <b>Latitude:</b>         | 40° 4' 47.250 N  |
| <b>From:</b>                 | Lat/Long                                  | <b>Easting:</b>     | 2,031,265.66 ft | <b>Longitude:</b>        | 110° 6' 11.250 W |
| <b>Position Uncertainty:</b> | 0.00 ft                                   | <b>Slot Radius:</b> | in              | <b>Grid Convergence:</b> | 0.89 °           |

|                      |                          |         |                     |                 |               |                  |
|----------------------|--------------------------|---------|---------------------|-----------------|---------------|------------------|
| Well                 | OH, 657' FNL & 1967' FEL |         |                     |                 |               |                  |
| Well Position        | +N/-S                    | 0.00 ft | Northing:           | 7,200,854.55 ft | Latitude:     | 40° 4' 47.250 N  |
|                      | +E/-W                    | 0.00 ft | Easting:            | 2,031,265.66 ft | Longitude:    | 110° 6' 11.250 W |
| Position Uncertainty |                          | 0.00 ft | Wellhead Elevation: | ft              | Ground Level: | 5,594.00 ft      |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | OH                |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2005-10       | 2007-12-12         | 11.77                  | 65.91                | 52,652                     |

|                          |                         |              |                      |                  |  |
|--------------------------|-------------------------|--------------|----------------------|------------------|--|
| <b>Design</b>            | Plan #1                 |              |                      |                  |  |
| <b>Audit Notes:</b>      |                         |              |                      |                  |  |
| <b>Version:</b>          | <b>Phase:</b>           | PLAN         | <b>Tie On Depth:</b> | 0.00             |  |
| <b>Vertical Section:</b> | <b>Depth From (TVD)</b> | <b>+N/-S</b> | <b>+E/-W</b>         | <b>Direction</b> |  |
|                          | (ft)                    | (ft)         | (ft)                 | (°)              |  |
|                          | 0.00                    | 0.00         | 0.00                 | 136.70           |  |

| Plan Sections       |                 |             |                     |            |            |                       |                      |                     |         |              |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|----------------------|---------------------|---------|--------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target       |
| 0.00                | 0.00            | 0.00        | 0.00                | 0.00       | 0.00       | 0.00                  | 0.00                 | 0.00                | 0.00    |              |
| 600.00              | 0.00            | 0.00        | 600.00              | 0.00       | 0.00       | 0.00                  | 0.00                 | 0.00                | 0.00    |              |
| 1,441.01            | 12.62           | 136.70      | 1,434.23            | -67.10     | 63.25      | 1.50                  | 1.50                 | 0.00                | 136.70  |              |
| 5,504.88            | 12.62           | 136.70      | 5,400.00            | -713.00    | 672.00     | 0.00                  | 0.00                 | 0.00                | 0.00    | MB I-34-8-16 |
| 6,601.35            | 12.62           | 136.70      | 6,470.00            | -887.26    | 836.25     | 0.00                  | 0.00                 | 0.00                | 0.00    |              |

# Scientific Drilling

## Planning Report

Database: EDM\_OCT\_1  
 Company: Newfield Exploration Co.  
 Project: Duchesne County, UT  
 Site: Monument Butte I-34-8-16  
 Well: OH  
 Wellbore: OH  
 Design: Plan #1

Local Co-ordinate Reference: Well OH  
 TVD Reference: GL 5594' & RKB 12' @ 5606.00ft (NDSI 2)  
 MD Reference: GL 5594' & RKB 12' @ 5606.00ft (NDSI 2)  
 North Reference: True  
 Survey Calculation Method: Minimum Curvature

### Planned Survey

| Measured<br>Depth<br>(ft)           | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Vertical<br>Section<br>(ft) | Dogleg<br>Rate<br>(°/100ft) | Build<br>Rate<br>(°/100ft) | Turn<br>Rate<br>(°/100ft) |
|-------------------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| 0.00                                | 0.00               | 0.00           | 0.00                      | 0.00          | 0.00          | 0.00                        | 0.00                        | 0.00                       | 0.00                      |
| 100.00                              | 0.00               | 0.00           | 100.00                    | 0.00          | 0.00          | 0.00                        | 0.00                        | 0.00                       | 0.00                      |
| 200.00                              | 0.00               | 0.00           | 200.00                    | 0.00          | 0.00          | 0.00                        | 0.00                        | 0.00                       | 0.00                      |
| 300.00                              | 0.00               | 0.00           | 300.00                    | 0.00          | 0.00          | 0.00                        | 0.00                        | 0.00                       | 0.00                      |
| 400.00                              | 0.00               | 0.00           | 400.00                    | 0.00          | 0.00          | 0.00                        | 0.00                        | 0.00                       | 0.00                      |
| 500.00                              | 0.00               | 0.00           | 500.00                    | 0.00          | 0.00          | 0.00                        | 0.00                        | 0.00                       | 0.00                      |
| 600.00                              | 0.00               | 0.00           | 600.00                    | 0.00          | 0.00          | 0.00                        | 0.00                        | 0.00                       | 0.00                      |
| <b>Start Build 1.50</b>             |                    |                |                           |               |               |                             |                             |                            |                           |
| 700.00                              | 1.50               | 136.70         | 699.99                    | -0.95         | 0.90          | 1.31                        | 1.50                        | 1.50                       | 0.00                      |
| 800.00                              | 3.00               | 136.70         | 799.91                    | -3.81         | 3.59          | 5.23                        | 1.50                        | 1.50                       | 0.00                      |
| 900.00                              | 4.50               | 136.70         | 899.69                    | -8.57         | 8.08          | 11.77                       | 1.50                        | 1.50                       | 0.00                      |
| 1,000.00                            | 6.00               | 136.70         | 999.27                    | -15.23        | 14.35         | 20.92                       | 1.50                        | 1.50                       | 0.00                      |
| 1,100.00                            | 7.50               | 136.70         | 1,098.57                  | -23.78        | 22.41         | 32.68                       | 1.50                        | 1.50                       | 0.00                      |
| 1,200.00                            | 9.00               | 136.70         | 1,197.54                  | -34.22        | 32.25         | 47.03                       | 1.50                        | 1.50                       | 0.00                      |
| 1,300.00                            | 10.50              | 136.70         | 1,296.09                  | -46.55        | 43.87         | 63.96                       | 1.50                        | 1.50                       | 0.00                      |
| 1,400.00                            | 12.00              | 136.70         | 1,394.16                  | -60.74        | 57.25         | 83.47                       | 1.50                        | 1.50                       | 0.00                      |
| 1,441.01                            | 12.62              | 136.70         | 1,434.23                  | -67.10        | 63.25         | 92.21                       | 1.50                        | 1.50                       | 0.00                      |
| <b>Start 12.62° Hold At 1441.01</b> |                    |                |                           |               |               |                             |                             |                            |                           |
| 1,500.00                            | 12.62              | 136.70         | 1,491.80                  | -76.48        | 72.08         | 105.10                      | 0.00                        | 0.00                       | 0.00                      |
| 1,600.00                            | 12.62              | 136.70         | 1,589.38                  | -92.37        | 87.06         | 126.94                      | 0.00                        | 0.00                       | 0.00                      |
| 1,700.00                            | 12.62              | 136.70         | 1,686.97                  | -108.27       | 102.04        | 148.78                      | 0.00                        | 0.00                       | 0.00                      |
| 1,800.00                            | 12.62              | 136.70         | 1,784.56                  | -124.16       | 117.02        | 170.62                      | 0.00                        | 0.00                       | 0.00                      |
| 1,900.00                            | 12.62              | 136.70         | 1,882.14                  | -140.05       | 132.00        | 192.46                      | 0.00                        | 0.00                       | 0.00                      |
| 2,000.00                            | 12.62              | 136.70         | 1,979.73                  | -155.95       | 146.98        | 214.30                      | 0.00                        | 0.00                       | 0.00                      |
| 2,100.00                            | 12.62              | 136.70         | 2,077.31                  | -171.84       | 161.96        | 236.14                      | 0.00                        | 0.00                       | 0.00                      |
| 2,200.00                            | 12.62              | 136.70         | 2,174.90                  | -187.73       | 176.94        | 257.98                      | 0.00                        | 0.00                       | 0.00                      |
| 2,300.00                            | 12.62              | 136.70         | 2,272.48                  | -203.63       | 191.92        | 279.82                      | 0.00                        | 0.00                       | 0.00                      |
| 2,400.00                            | 12.62              | 136.70         | 2,370.07                  | -219.52       | 206.90        | 301.66                      | 0.00                        | 0.00                       | 0.00                      |
| 2,500.00                            | 12.62              | 136.70         | 2,467.66                  | -235.41       | 221.88        | 323.50                      | 0.00                        | 0.00                       | 0.00                      |
| 2,600.00                            | 12.62              | 136.70         | 2,565.24                  | -251.31       | 236.86        | 345.34                      | 0.00                        | 0.00                       | 0.00                      |
| 2,700.00                            | 12.62              | 136.70         | 2,662.83                  | -267.20       | 251.84        | 367.18                      | 0.00                        | 0.00                       | 0.00                      |
| 2,800.00                            | 12.62              | 136.70         | 2,760.41                  | -283.10       | 266.82        | 389.02                      | 0.00                        | 0.00                       | 0.00                      |
| 2,900.00                            | 12.62              | 136.70         | 2,858.00                  | -298.99       | 281.80        | 410.86                      | 0.00                        | 0.00                       | 0.00                      |
| 3,000.00                            | 12.62              | 136.70         | 2,955.59                  | -314.88       | 296.78        | 432.70                      | 0.00                        | 0.00                       | 0.00                      |
| 3,100.00                            | 12.62              | 136.70         | 3,053.17                  | -330.78       | 311.76        | 454.54                      | 0.00                        | 0.00                       | 0.00                      |
| 3,200.00                            | 12.62              | 136.70         | 3,150.76                  | -346.67       | 326.74        | 476.38                      | 0.00                        | 0.00                       | 0.00                      |
| 3,300.00                            | 12.62              | 136.70         | 3,248.34                  | -362.56       | 341.72        | 498.22                      | 0.00                        | 0.00                       | 0.00                      |
| 3,400.00                            | 12.62              | 136.70         | 3,345.93                  | -378.46       | 356.70        | 520.06                      | 0.00                        | 0.00                       | 0.00                      |
| 3,500.00                            | 12.62              | 136.70         | 3,443.52                  | -394.35       | 371.68        | 541.90                      | 0.00                        | 0.00                       | 0.00                      |
| 3,600.00                            | 12.62              | 136.70         | 3,541.10                  | -410.24       | 386.65        | 563.74                      | 0.00                        | 0.00                       | 0.00                      |
| 3,700.00                            | 12.62              | 136.70         | 3,638.69                  | -426.14       | 401.63        | 585.58                      | 0.00                        | 0.00                       | 0.00                      |
| 3,800.00                            | 12.62              | 136.70         | 3,736.27                  | -442.03       | 416.61        | 607.42                      | 0.00                        | 0.00                       | 0.00                      |
| 3,900.00                            | 12.62              | 136.70         | 3,833.86                  | -457.92       | 431.59        | 629.26                      | 0.00                        | 0.00                       | 0.00                      |
| 4,000.00                            | 12.62              | 136.70         | 3,931.44                  | -473.82       | 446.57        | 651.10                      | 0.00                        | 0.00                       | 0.00                      |
| 4,100.00                            | 12.62              | 136.70         | 4,029.03                  | -489.71       | 461.55        | 672.94                      | 0.00                        | 0.00                       | 0.00                      |
| 4,200.00                            | 12.62              | 136.70         | 4,126.62                  | -505.60       | 476.53        | 694.78                      | 0.00                        | 0.00                       | 0.00                      |
| 4,300.00                            | 12.62              | 136.70         | 4,224.20                  | -521.50       | 491.51        | 716.62                      | 0.00                        | 0.00                       | 0.00                      |
| 4,400.00                            | 12.62              | 136.70         | 4,321.79                  | -537.39       | 506.49        | 738.46                      | 0.00                        | 0.00                       | 0.00                      |
| 4,500.00                            | 12.62              | 136.70         | 4,419.37                  | -553.28       | 521.47        | 760.30                      | 0.00                        | 0.00                       | 0.00                      |
| 4,600.00                            | 12.62              | 136.70         | 4,516.96                  | -569.18       | 536.45        | 782.14                      | 0.00                        | 0.00                       | 0.00                      |
| 4,700.00                            | 12.62              | 136.70         | 4,614.55                  | -585.07       | 551.43        | 803.98                      | 0.00                        | 0.00                       | 0.00                      |
| 4,800.00                            | 12.62              | 136.70         | 4,712.13                  | -600.96       | 566.41        | 825.82                      | 0.00                        | 0.00                       | 0.00                      |
| 4,900.00                            | 12.62              | 136.70         | 4,809.72                  | -616.86       | 581.39        | 847.66                      | 0.00                        | 0.00                       | 0.00                      |



# Scientific Drilling

## Planning Report

**Database:** EDM\_OCT\_1  
**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT  
**Site:** Monument Butte I-34-8-16  
**Well:** OH  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well OH  
**TVD Reference:** GL 5594' & RKB 12' @ 5606.00ft (NDSI 2)  
**MD Reference:** GL 5594' & RKB 12' @ 5606.00ft (NDSI 2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

### Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 5,000.00            | 12.62           | 136.70      | 4,907.30            | -632.75    | 596.37     | 869.50                | 0.00                  | 0.00                 | 0.00                |
| 5,100.00            | 12.62           | 136.70      | 5,004.89            | -648.65    | 611.35     | 891.34                | 0.00                  | 0.00                 | 0.00                |
| 5,200.00            | 12.62           | 136.70      | 5,102.48            | -664.54    | 626.33     | 913.18                | 0.00                  | 0.00                 | 0.00                |
| 5,300.00            | 12.62           | 136.70      | 5,200.06            | -680.43    | 641.31     | 935.02                | 0.00                  | 0.00                 | 0.00                |
| 5,400.00            | 12.62           | 136.70      | 5,297.65            | -696.33    | 656.29     | 956.86                | 0.00                  | 0.00                 | 0.00                |
| 5,500.00            | 12.62           | 136.70      | 5,395.23            | -712.22    | 671.27     | 978.70                | 0.00                  | 0.00                 | 0.00                |
| 5,504.88            | 12.62           | 136.70      | 5,400.00            | -713.00    | 672.00     | 979.77                | 0.00                  | 0.00                 | 0.00                |
| <b>MB I-34-8-16</b> |                 |             |                     |            |            |                       |                       |                      |                     |
| 5,600.00            | 12.62           | 136.70      | 5,492.82            | -728.11    | 686.25     | 1,000.54              | 0.00                  | 0.00                 | 0.00                |
| 5,700.00            | 12.62           | 136.70      | 5,590.40            | -744.01    | 701.23     | 1,022.38              | 0.00                  | 0.00                 | 0.00                |
| 5,800.00            | 12.62           | 136.70      | 5,687.99            | -759.90    | 716.21     | 1,044.22              | 0.00                  | 0.00                 | 0.00                |
| 5,900.00            | 12.62           | 136.70      | 5,785.58            | -775.79    | 731.19     | 1,066.06              | 0.00                  | 0.00                 | 0.00                |
| 6,000.00            | 12.62           | 136.70      | 5,883.16            | -791.69    | 746.17     | 1,087.90              | 0.00                  | 0.00                 | 0.00                |
| 6,100.00            | 12.62           | 136.70      | 5,980.75            | -807.58    | 761.15     | 1,109.74              | 0.00                  | 0.00                 | 0.00                |
| 6,200.00            | 12.62           | 136.70      | 6,078.33            | -823.47    | 776.13     | 1,131.58              | 0.00                  | 0.00                 | 0.00                |
| 6,300.00            | 12.62           | 136.70      | 6,175.92            | -839.37    | 791.11     | 1,153.42              | 0.00                  | 0.00                 | 0.00                |
| 6,400.00            | 12.62           | 136.70      | 6,273.51            | -855.26    | 806.09     | 1,175.26              | 0.00                  | 0.00                 | 0.00                |
| 6,500.00            | 12.62           | 136.70      | 6,371.09            | -871.15    | 821.06     | 1,197.10              | 0.00                  | 0.00                 | 0.00                |
| 6,600.00            | 12.62           | 136.70      | 6,468.68            | -887.05    | 836.04     | 1,218.94              | 0.00                  | 0.00                 | 0.00                |
| 6,601.35            | 12.62           | 136.70      | 6,470.00            | -887.26    | 836.25     | 1,219.24              | 0.00                  | 0.00                 | 0.00                |

### Targets

| Target Name             | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude        | Longitude       |
|-------------------------|---------------|--------------|----------|------------|------------|---------------|--------------|-----------------|-----------------|
| - hit/miss target       |               |              |          |            |            |               |              |                 |                 |
| - Shape                 |               |              |          |            |            |               |              |                 |                 |
| MB I-34-8-16            | 0.00          | 0.00         | 5,400.00 | -713.00    | 672.00     | 7,200,152.13  | 2,031,948.71 | 40° 4' 40.203 N | 110° 6' 2.604 W |
| - plan hits target      |               |              |          |            |            |               |              |                 |                 |
| - Circle (radius 75.00) |               |              |          |            |            |               |              |                 |                 |

### Plan Annotations

| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates |            | Comment                      |
|---------------------|---------------------|-------------------|------------|------------------------------|
|                     |                     | +N/-S (ft)        | +E/-W (ft) |                              |
| 600.00              | 600.00              | 0.00              | 0.00       | Start Build 1.50             |
| 1,441.01            | 1,434.23            | -67.10            | 63.25      | Start 12.62° Hold At 1441.01 |

**NEWFIELD PRODUCTION COMPANY  
MONUMENT BUTTE FEDERAL #I-34-8-16  
AT SURFACE: NW/NE SECTION 34, T8S, R16E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**MULTI-POINT SURFACE USE & OPERATIONS PLAN**

**1. EXISTING ROADS**

See attached Topographic Map "A"

To reach Newfield Production Company well location site Monument Butte Federal #I-34-8-16 located in the NW 1/4 NE 1/4 Section 34, T8S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southeasterly - 6.2 miles  $\pm$  to it's junction with an existing dirt road to the southwest; proceed southwesterly - 3.0 miles  $\pm$  to it's junction with the beginning of the access road to the existing Mon. Butte 2-34-8-16 well location.

**2. PLANNED ACCESS ROAD**

There is no proposed access road for this location. The proposed well will be drilled directionally off of the existing Mon. Butte 2-34-8-16 well pad. See attached Topographic Map "B".

**3. LOCATION OF EXISTING WELLS**

Refer to Exhibit "B".

**4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

The proposed well will be drilled directionally off of the Mon. Butte 2-34-8-16 well pad. There will be a pumping unit and a short flow line added to the tank battery for the proposed Monument Butte Federal I-34-8-16. All permanent surface equipment will be painted Carlsbad Canyon.

Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

**5. LOCATION AND TYPE OF WATER SUPPLY**

Newfield Production will transport water by truck for drilling purposes from the following water sources:

Johnson Water District  
Water Right: 43-10136

Neil Moon Pond  
Water Right: 43-11787

Maurice Harvey Pond  
Water Right: 47-1358

Newfield Collector Well  
Water Right: 41-3530 (A30414DV, contracted with the Duchesne County Conservancy District).

Please refer to the Monument Butte Field SOP. See Exhibit "A".

6. **SOURCE OF CONSTRUCTION MATERIALS**

The proposed Monument Butte Federal I-34-8-16 will be drilled off of the existing Mon. Butte 2-34-8-16 well pad. No additional surface disturbance will be required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

Please refer to the Monument Butte Field SOP.

8. **ANCILLARY FACILITIES**

Please refer to the Monument Butte Field SOP.

9. **WELL SITE LAYOUT**

See attached Location Layout Diagram.

10. **PLANS FOR RESTORATION OF SURFACE**

Please refer to the Monument Butte Field SOP.

11. **SURFACE OWNERSHIP** - Bureau Of Land Management (Proposed location and access roads leading to).

12. **OTHER ADDITIONAL INFORMATION**

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. Archaeological Report #868-01, 5/21/96. See attached report cover page, Exhibit "D".

Newfield Production Company requests 230' of disturbed area be granted in Lease UTU-16535 to allow for construction of the proposed water lines. It is proposed that the disturbed area will temporarily be 50' wide to allow for construction of a buried 3" steel water injection line and a buried 3" poly water return line and 30' wide upon completion of the proposed water lines. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

**Water Disposal**

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

**Threatened, Endangered, And Other Sensitive Species**

**Mountain Plover:** If new construction or surface disturbing activities are scheduled to occur between May 15 and June 15, detailed surveys of the area within 0.5 mile of the proposed location and within 300 feet of proposed access routes must be conducted to detect the presence of mountain plovers. All surveys must be conducted in accordance with the survey protocols outlined in the most recent USFWS Survey Protocol. Surveys must be completed prior to initiating new construction or surface disturbing activities. No new construction or surface disturbing activities

will be allowed between May 15 and June 15 within a 0.5 mile radius of any documented mountain plover nest site.

**Reserve Pit Liner**

A 16 mil liner with felt is required. Please refer to the Monument Butte Field SOP.

**Location and Reserve Pit Reclamation**

Please refer to the Monument Butte Field SOP.

The following seed mixture will be used on the topsoil stockpile, to the recontoured surface of the reserve pit, and for final reclamation: (All poundages are in pure live seed)

|                    |                               |               |
|--------------------|-------------------------------|---------------|
| Squirrell Tail     | <i>Elymus Elymoides</i>       | 5 lbs/acre    |
| Crested Wheatgrass | <i>Agropyron Cristatum</i>    | 5 lbs/acre    |
| Gardner Saltbush   | <i>Atriplex Gardneri</i>      | 0.5 lbs/acre  |
| Shadscale          | <i>Atriplex Confertifolia</i> | 0.5 lbs/acre  |
| Forage Kochia      | <i>Kochia Prostrata</i>       | 0.25 lbs/acre |

**Details of the On-Site Inspection**

The proposed Monument Butte Federal I-34-8-16 was on-sited on 11/20/07. The following were present; Dave Allred (Newfield Production), Michael Cutler (Bureau of Land Management), and Scott Ackerman (Bureau of Land Management).. Weather conditions were clear and ground cover was 100% open.

**LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION**

Representative

Name: Dave Allred  
Address: Route #3 Box 3630  
Myton, UT 84052  
Telephone: (435) 646-3721

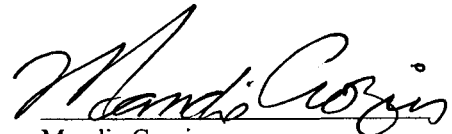
Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #I-34-8-16 NW/NE Section 34, Township 8S, Range 16E: Lease UTU-16535 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #WYB000493.

I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

12/11/07

Date



Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

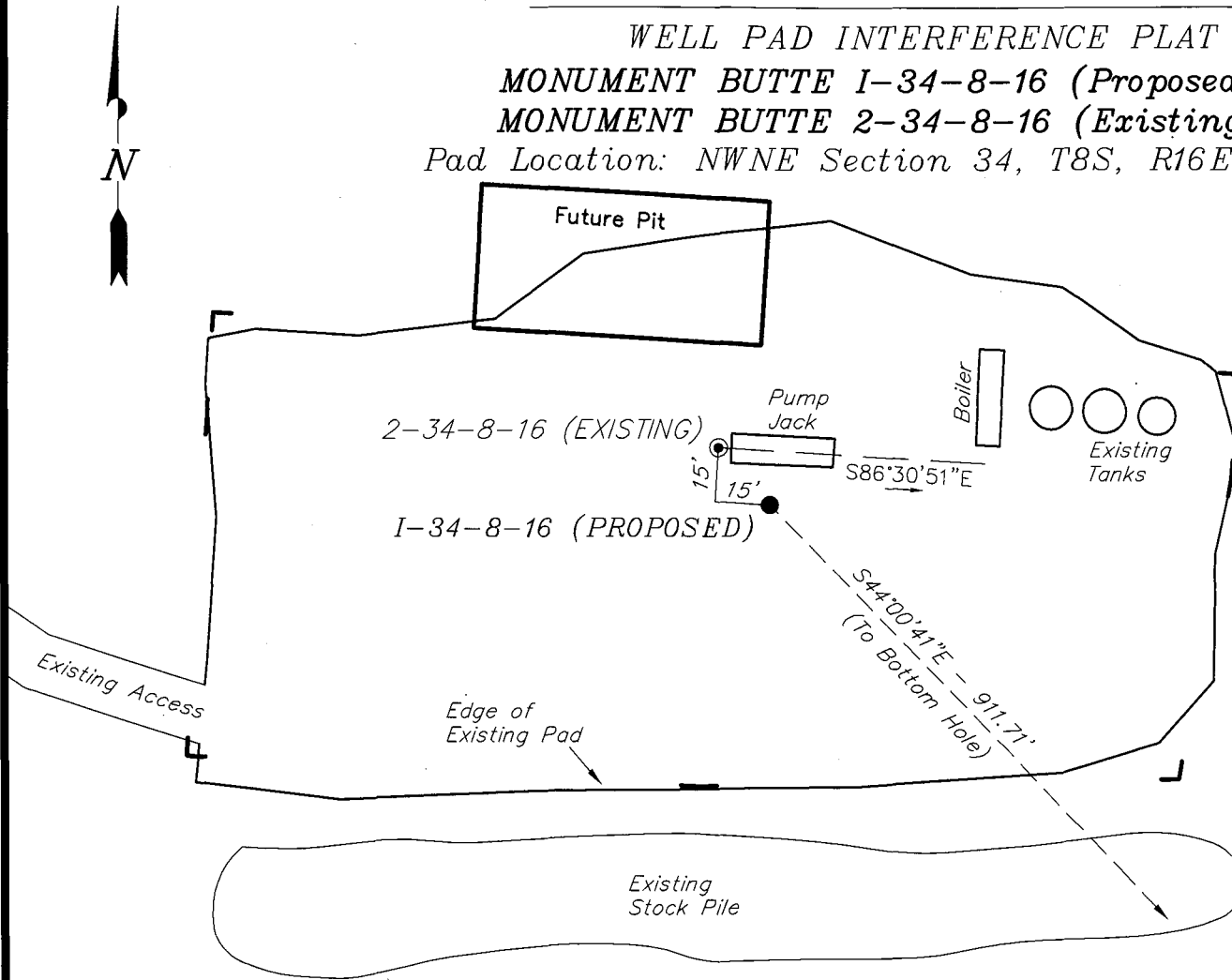
# NEWFIELD PRODUCTION COMPANY

## WELL PAD INTERFERENCE PLAT

MONUMENT BUTTE I-34-8-16 (Proposed Well)

MONUMENT BUTTE 2-34-8-16 (Existing Well)

Pad Location: NWNE Section 34, T8S, R16E, S.L.B.&M.



### TOP HOLE FOOTAGES

I-34-8-16 (PROPOSED)  
657' FNL & 1967' FEL

### BOTTOM HOLE FOOTAGES

I-34-8-16 (PROPOSED)  
1309' FNL & 1334' FEL

#### Note:

Bearings are based on  
GLO Information.

### RELATIVE COORDINATES From top hole to bottom hole

| WELL      | NORTH | EAST |
|-----------|-------|------|
| I-34-8-16 | -656' | 633' |

### LATITUDE & LONGITUDE Surface position of Wells (NAD 83)

| WELL      | LATITUDE       | LONGITUDE       |
|-----------|----------------|-----------------|
| I-34-8-16 | 40° 04' 47.25" | 110° 06' 11.25" |
| 2-34-8-16 | 40° 04' 47.40" | 110° 06' 11.43" |

|                   |                         |
|-------------------|-------------------------|
| SURVEYED BY: T.H. | DATE SURVEYED: 09-21-07 |
| DRAWN BY: F.T.M.  | DATE DRAWN: 10-08-07    |
| SCALE: 1" = 50'   | REVISED:                |

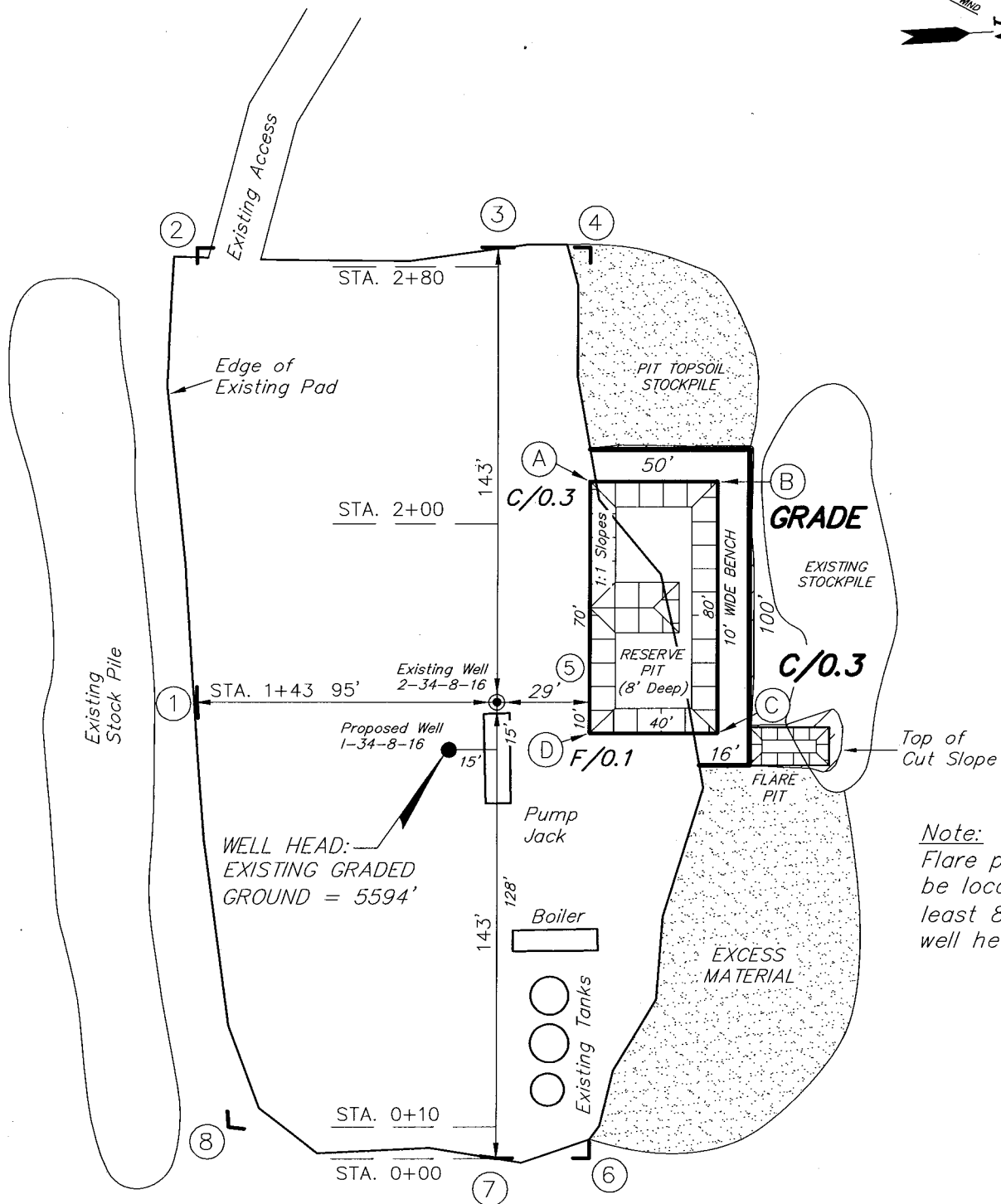
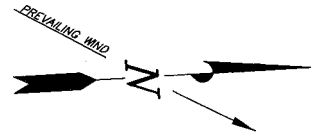
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180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD PRODUCTION COMPANY

MONUMENT BUTTE 1-34-8-16 (Proposed Well)

MONUMENT BUTTE 2-34-8-16 (Existing Well)

Pad Location: NWNE Section 34, T8S, R16E, S.L.B.&M.



Note:  
Flare pit is to be located at least 80' from well head.

|                   |                         |
|-------------------|-------------------------|
| SURVEYED BY: T.H. | DATE SURVEYED: 09-21-07 |
| DRAWN BY: F.T.M.  | DATE DRAWN: 10-08-07    |
| SCALE: 1" = 50'   | REVISED:                |

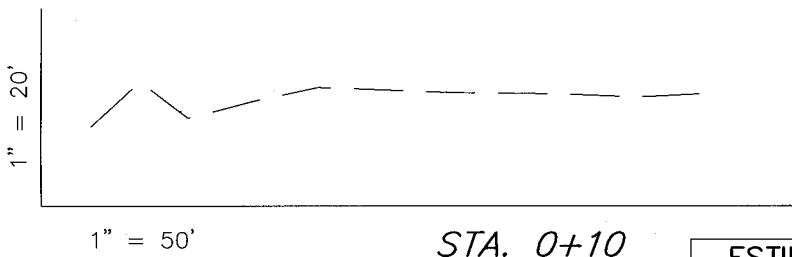
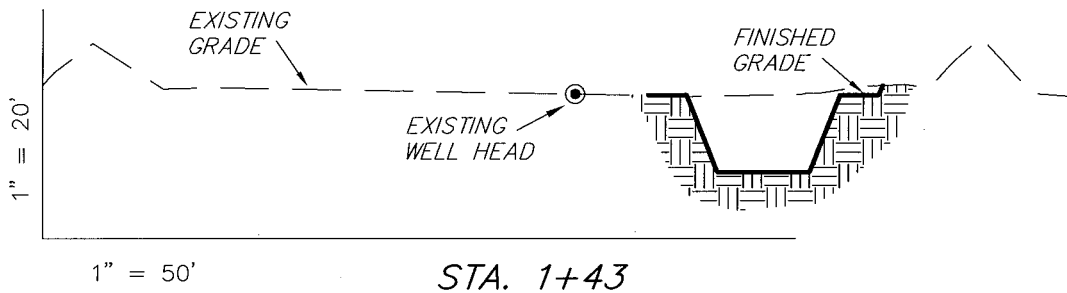
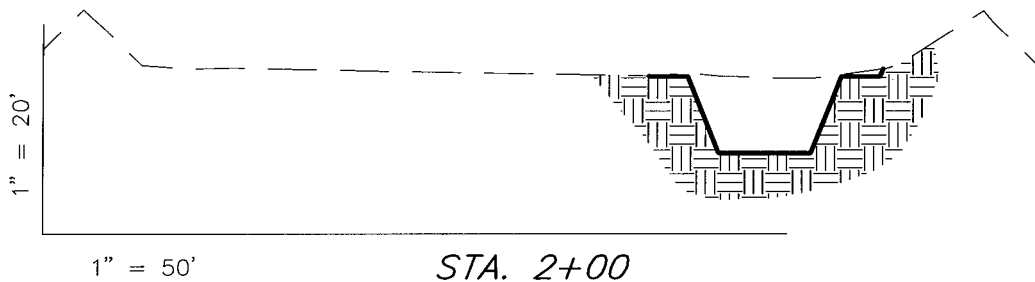
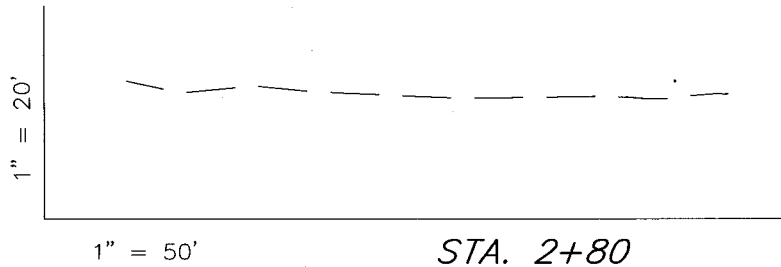
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# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS

MONUMENT BUTTE 1-34-8-16 (Proposed Well)

MONUMENT BUTTE 2-34-8-16 (Existing Well)



NOTE:  
UNLESS OTHERWISE NOTED  
CUT SLOPES ARE AT 1:1  
FILL SLOPES ARE AT 1.5:1

### ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)

| ITEM   | CUT | FILL | 6" TOPSOIL                         | EXCESS |
|--------|-----|------|------------------------------------|--------|
| PAD    | 90  | 0    | Topsoil is not included in Pad Cut | 90     |
| PIT    | 640 | 0    |                                    | 640    |
| TOTALS | 730 | 0    | 120                                | 730    |

SURVEYED BY: T.H.      DATE SURVEYED: 09-21-07  
DRAWN BY: F.T.M.      DATE DRAWN: 10-08-07  
SCALE: 1" = 50'      REVISED:

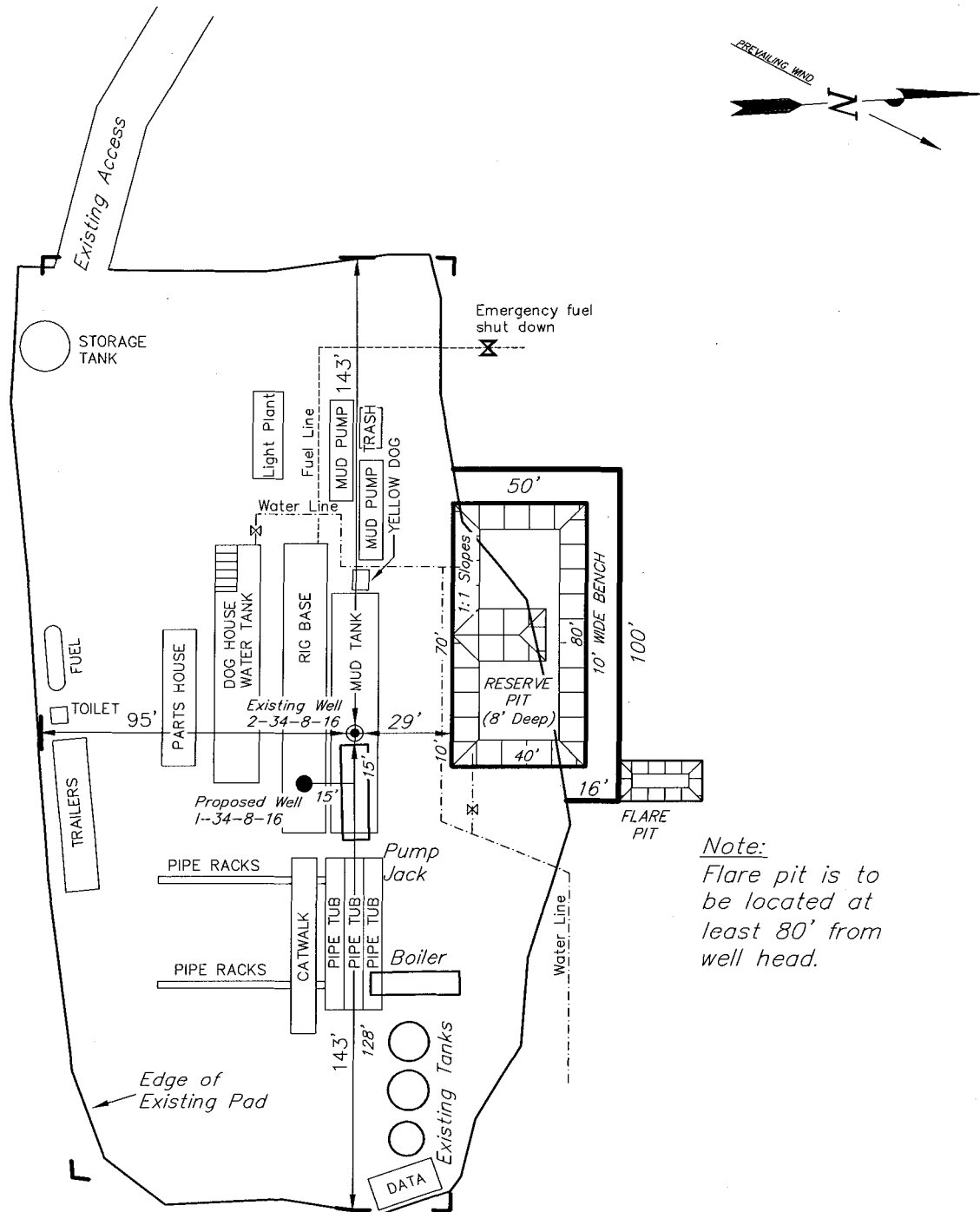
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# NEWFIELD PRODUCTION COMPANY

## TYPICAL RIG LAYOUT

MONUMENT BUTTE 1-34-8-16 (Proposed Well)

MONUMENT BUTTE 2-34-8-16 (Existing Well)



Note:  
Flare pit is to  
be located at  
least 80' from  
well head.

|                   |                         |
|-------------------|-------------------------|
| SURVEYED BY: T.H. | DATE SURVEYED: 09-21-07 |
| DRAWN BY: F.T.M.  | DATE DRAWN: 10-08-07    |
| SCALE: 1" = 50'   | REVISED:                |

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# Newfield Production Company Proposed Site Facility Diagram

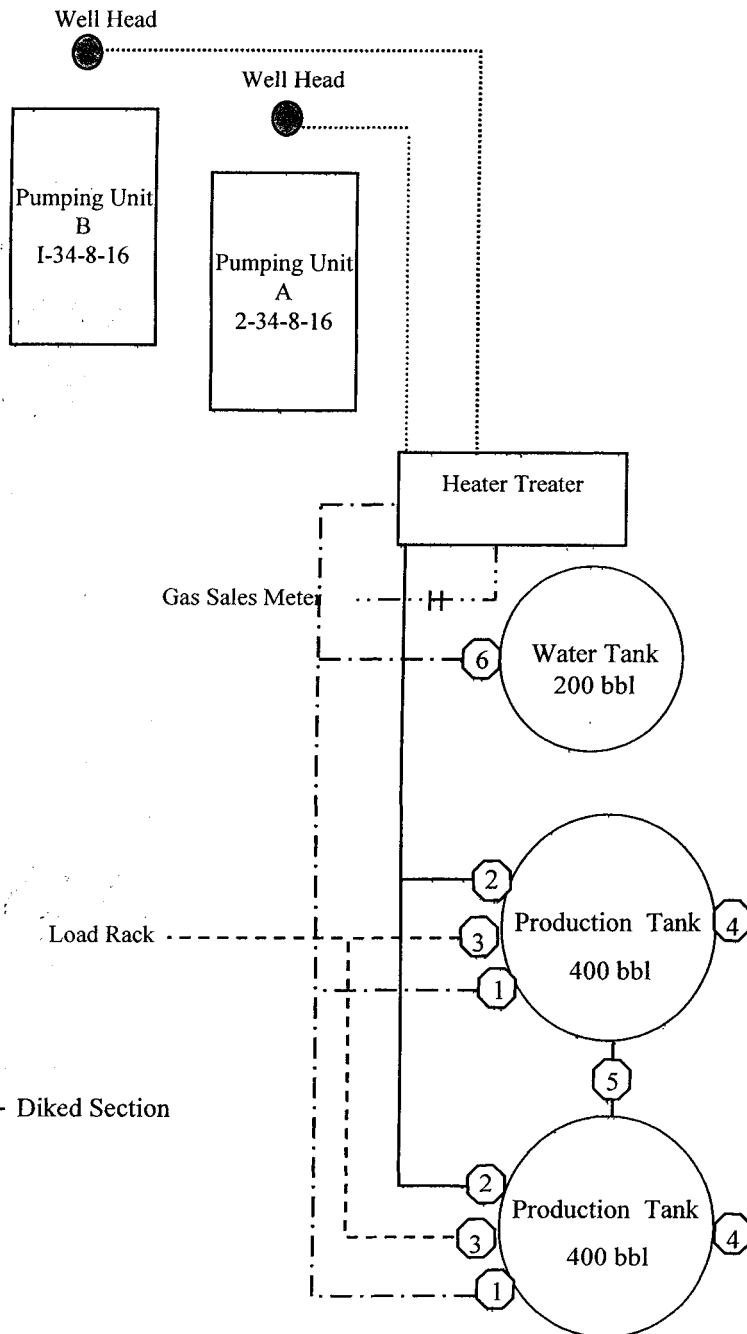
Monument Butte Federal I-34-8-16

From the 2-34-8-16 Location

NW/NE Sec. 34 T8S, R16E

Duchesne County, Utah

UTU-16535



Site Security Plan is held at the Pleasant Valley Office, Duchesne County, Utah

## Production Phase:

- 1) Valves 1, 3, and 4 sealed closed
- 2) Valves 2, 5, and 6 sealed open

## Sales Phase:

- 1) Valves 1, 2, 4, 5, and 6 sealed closed
- 2) Valve 3 open

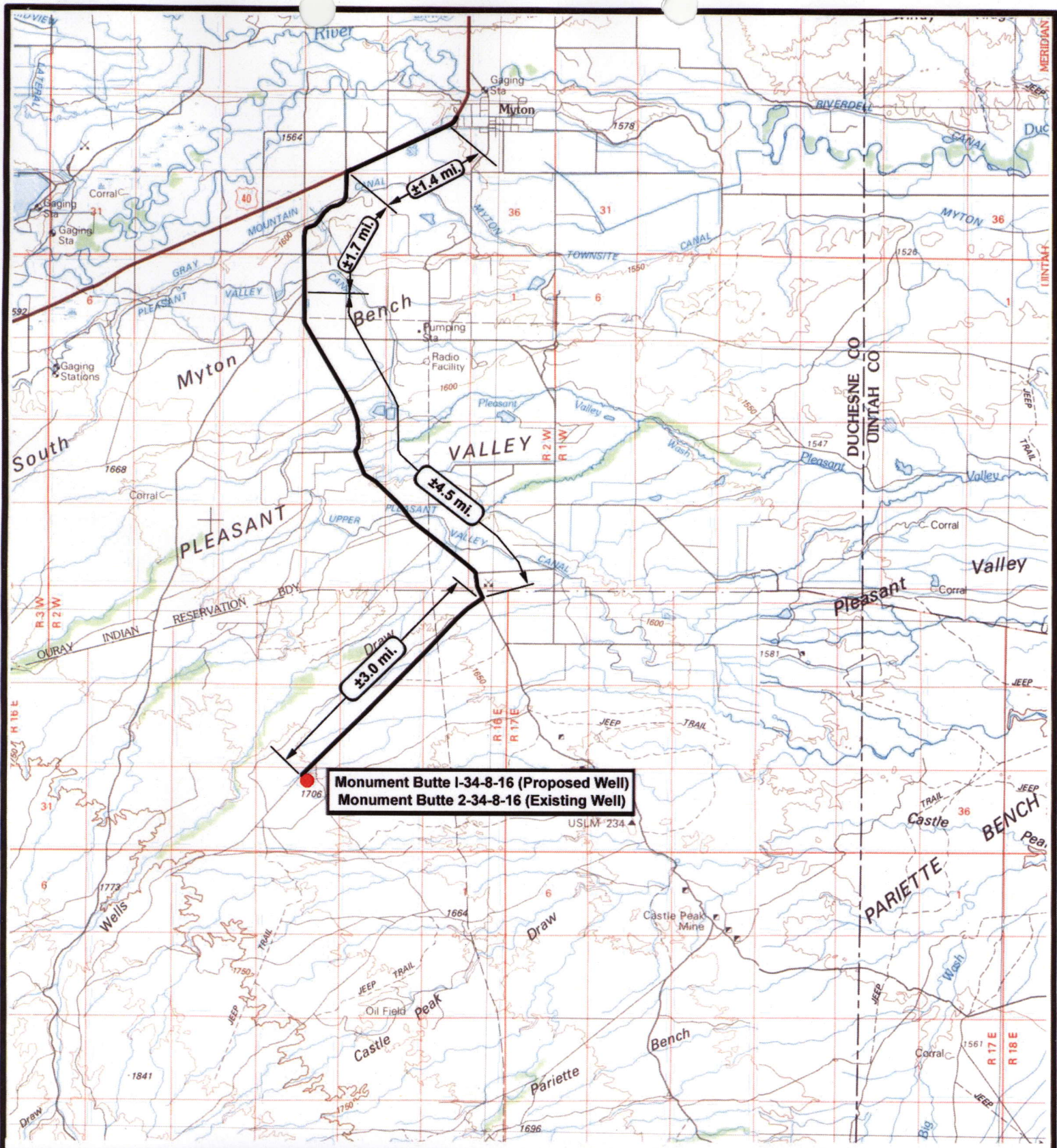
## Draining Phase:

- 1) Valves 1 and 6 open


## Legend

|               |       |
|---------------|-------|
| Emulsion Line | ..... |
| Load Rack     | ----- |
| Water Line    | ..... |
| Gas Sales     | ----- |
| Oil Line      | ————  |





**Monument Butte I-34-8-16 (Proposed Well)**  
**Monument Butte 2-34-8-16 (Existing Well)**



**NEWFIELD**  
Exploration Company

**Monument Butte I-34-8-16 (Proposed Well)**  
**Monument Butte 2-34-8-16 (Existing Well)**  
**Pad Location NWNE Sec 34, T8S, R16E, S.L.B.&M.**





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SCALE: 1 : 100,000  
 DRAWN BY: nc  
 DATE: 10-21-2007

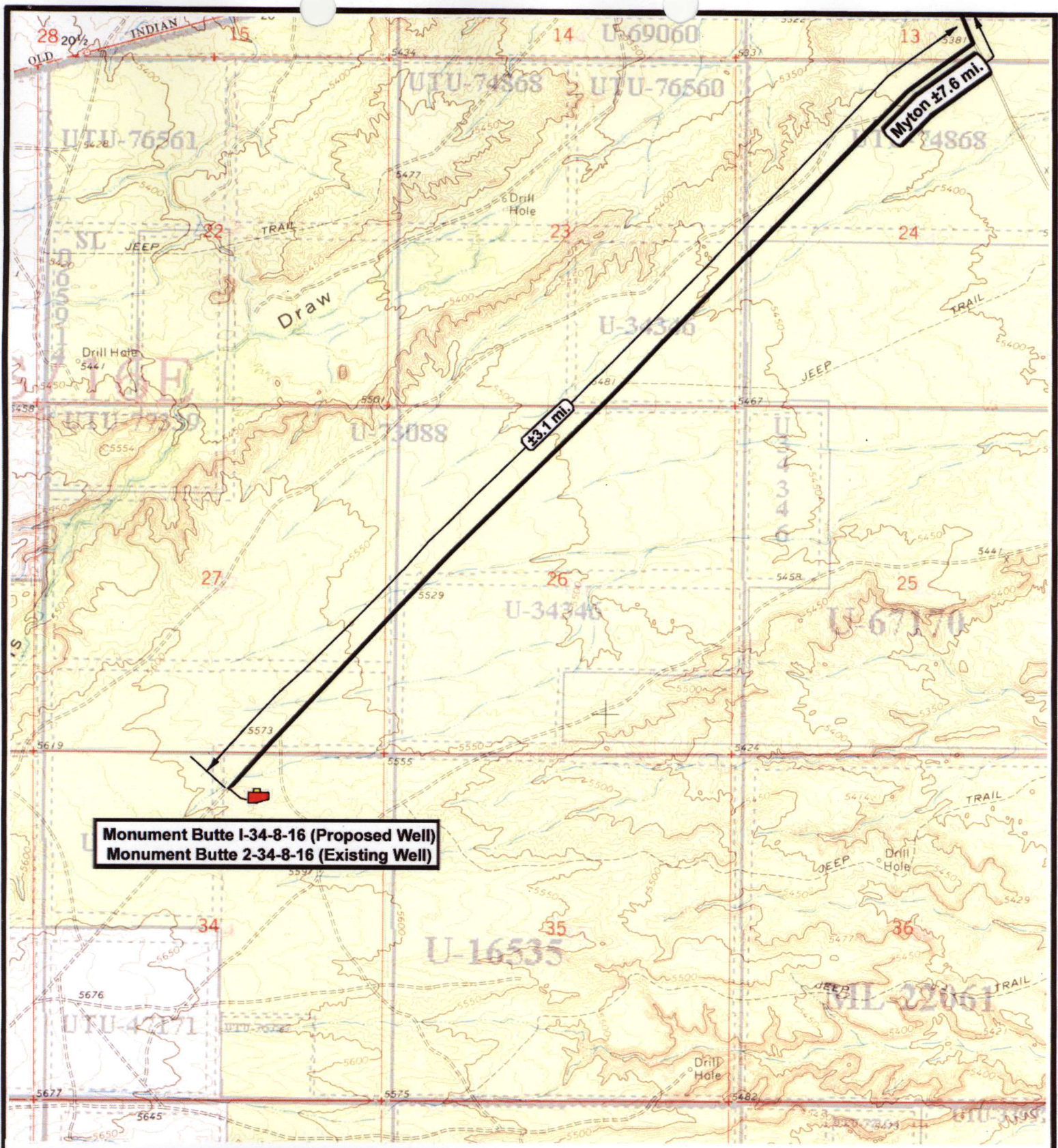
**Legend**

Existing Road


**TOPOGRAPHIC MAP**

A





**Monument Butte I-34-8-16 (Proposed Well)**  
**Monument Butte 2-34-8-16 (Existing Well)**



**NEWFIELD**  
Exploration Company

**Monument Butte I-34-8-16 (Proposed Well)**  
**Monument Butte 2-34-8-16 (Existing Well)**  
 Pad Location NWNE Sec 34, T8S, R16E, S.L.B.&M.





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180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2000'  
 DRAWN BY: nc  
 DATE: 10-21-2007

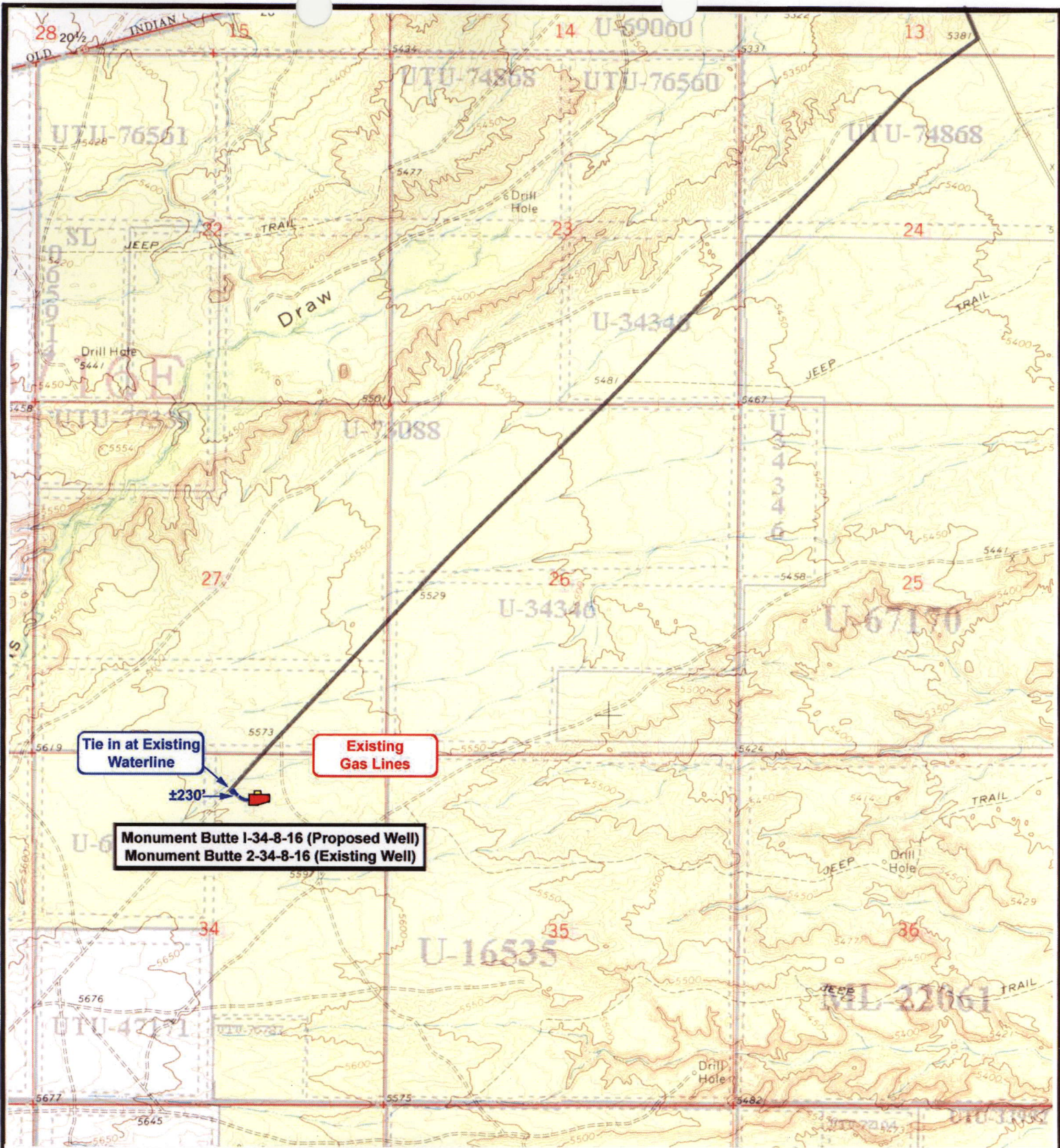
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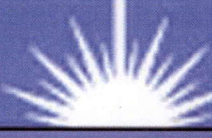
Existing Road

**TOPOGRAPHIC MAP**

"B"







**NEWFIELD**  
Exploration Company

**Monument Butte I-34-8-16 (Proposed Well)**  
**Monument Butte 2-34-8-16 (Existing Well)**  
 Pad Location NWNE Sec 34, T8S, R16E, S.L.B.&M.



**Tri-State**  
Land Surveying Inc.  
 (435) 781-2501  
 180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2000'  
 DRAWN BY: nc  
 DATE: 10-21-2007

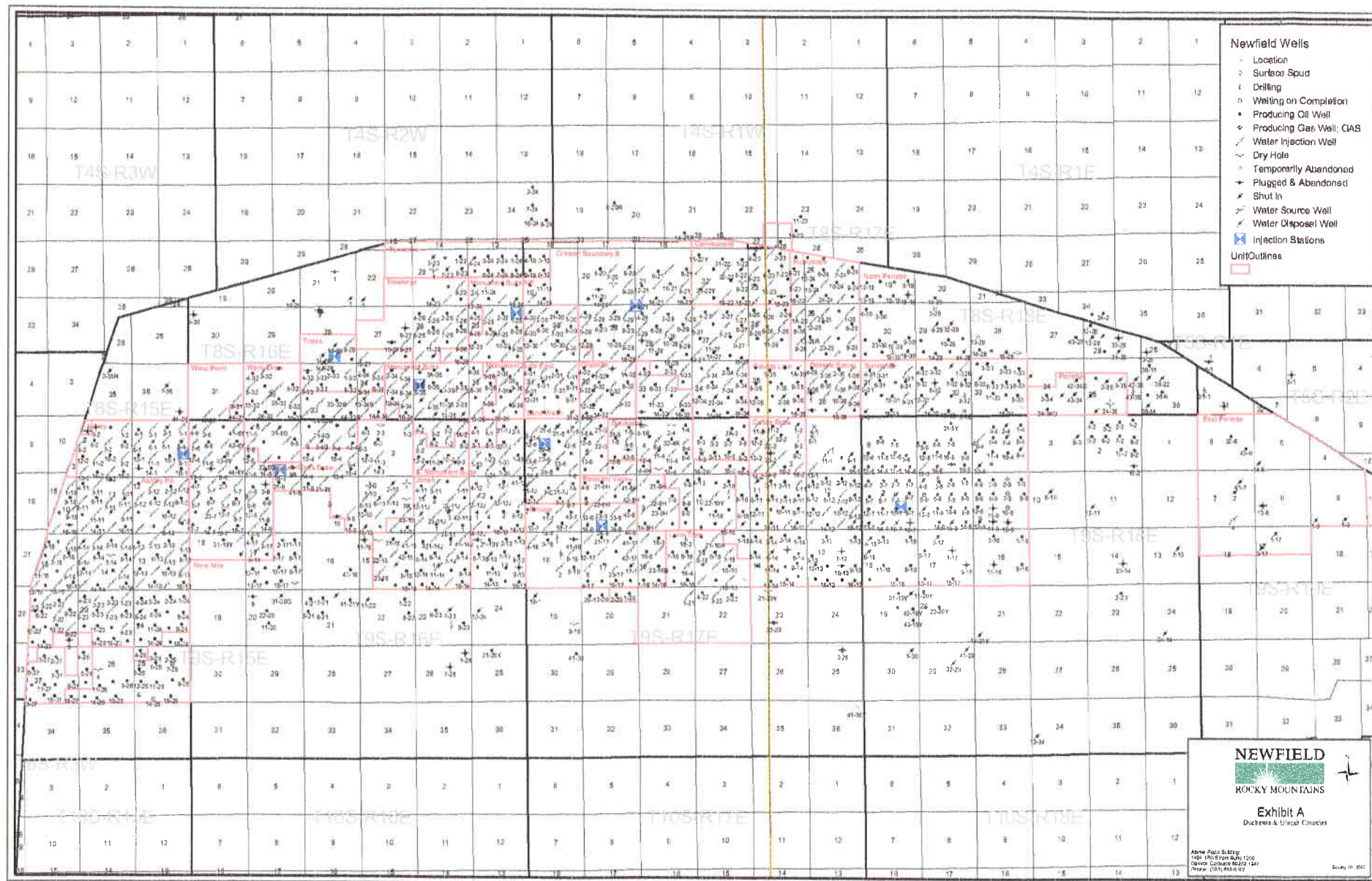
**Legend**

— Existing Roads  
 - - - - - Proposed Water Line

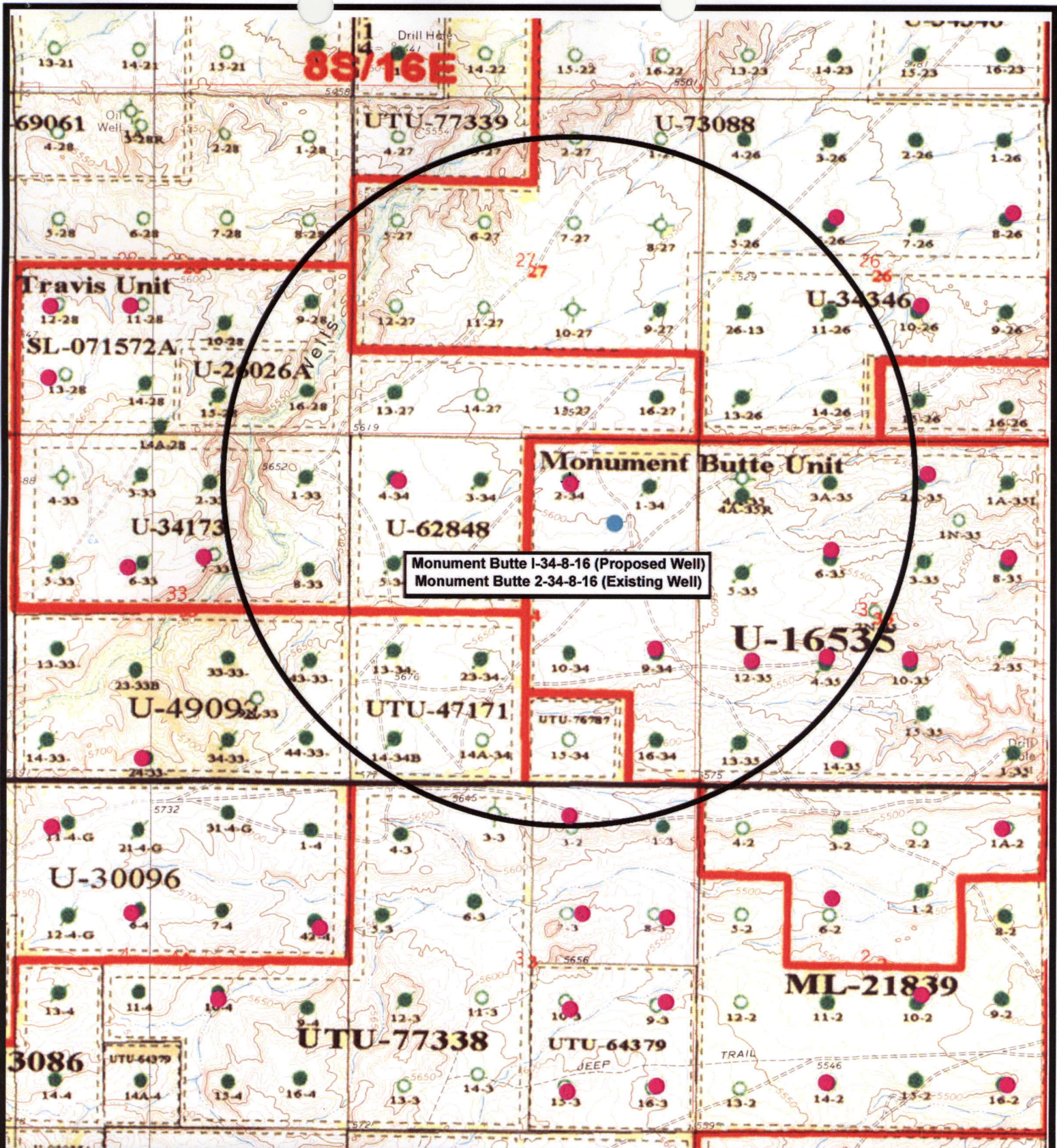
**TOPOGRAPHIC MAP**


**"C"**











**NEWFIELD**  
Exploration Company

**Monument Butte I-34-8-16 (Proposed Well)**  
**Monument Butte 2-34-8-16 (Existing Well)**  
 Pad Location NWNE Sec 34, T8S, R16E, S.L.B.&M.



**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2000'

DRAWN BY: nc

DATE: 10-21-2007

**Legend**

- Pad Location
- Bottom Hole Location
- One-Mile Radius

**Exhibit "B"**



# 2-M SYSTEM

Blowout Prevention Equipment Systems

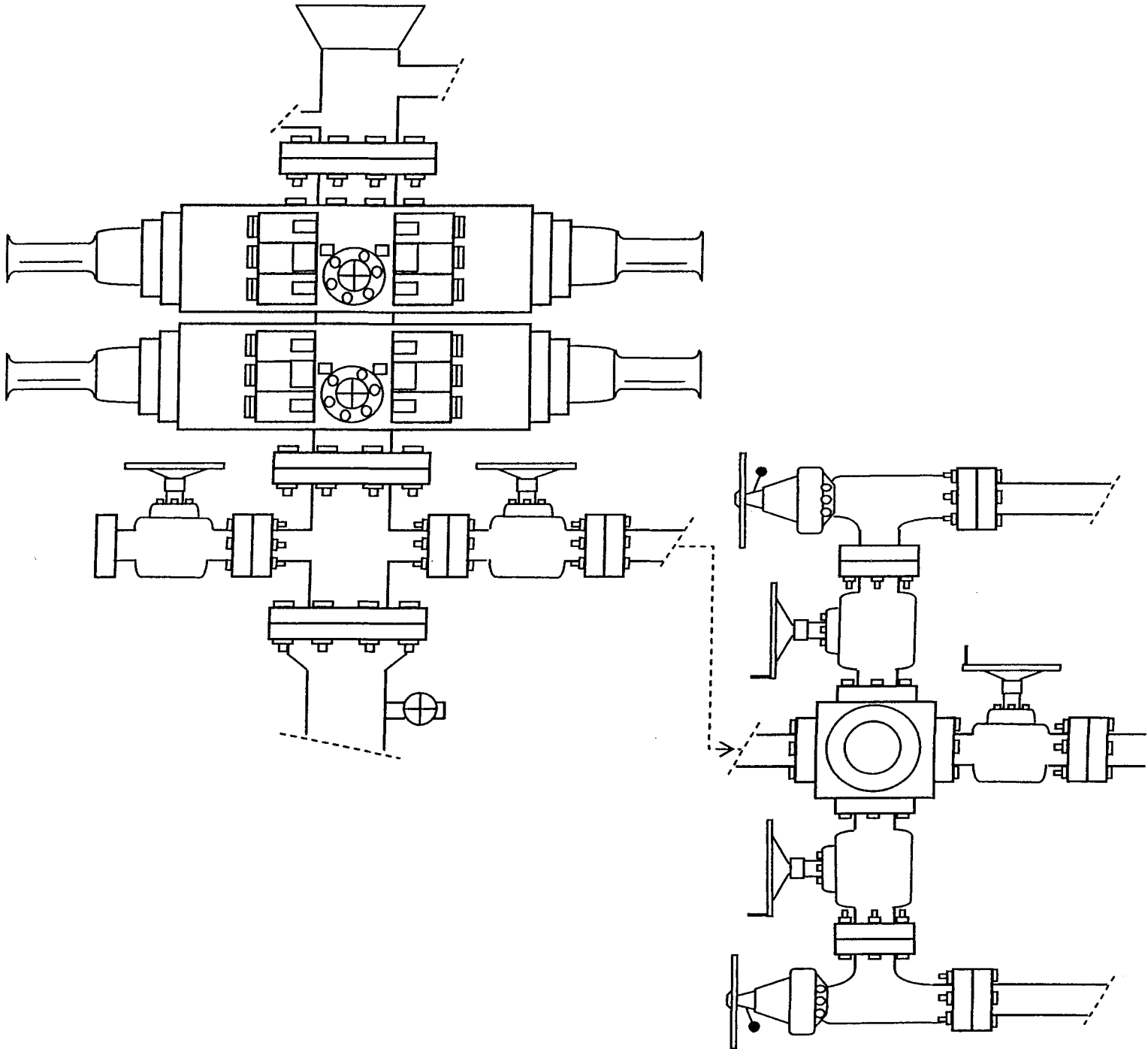


EXHIBIT C

Exhibit "D"

**A CULTURAL RESOURCES SURVEY OF  
MONUMENT BUTTE FEDERAL WELLS #2-34 AND #4-34 AND  
ACCESS ROADS, DUCHESNE COUNTY, UTAH**

by

**Wendy Simmons Johnson  
Senior Archaeologist**

**Prepared for:**

**Inland Production Company  
P.O. Box 1446  
Roosevelt, Utah 84066**

**Prepared by:**

**Sagebrush Archaeological Consultants, L.L.C.  
3670 Quincy Avenue, Suite 203  
Ogden, Utah 84403**

**Under Authority of Utah State Antiquities Permit No. U-95-SJ-0253b**

**Archaeological Report No. 868-01**

**May 21, 1996**



**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 01/14/2008

API NO. ASSIGNED: 43-013-33871

WELL NAME: MON BUTTE FED I-34-8-16

OPERATOR: NEWFIELD PRODUCTION ( N2695 )

CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

NWNE 34 080S 160E

SURFACE: 0657 FNL 1967 FEL

BOTTOM: 1309 FNL 1334 FEL

COUNTY: DUCHESNE

LATITUDE: 40.07982 LONGITUDE: -110.1024

UTM SURF EASTINGS: 576533 NORTHINGS: 4436792

FIELD NAME: MONUMENT BUTTE ( 105 )

| INSPECT LOCATN BY: / / |          |      |
|------------------------|----------|------|
| Tech Review            | Initials | Date |
| Engineering            |          |      |
| Geology                |          |      |
| Surface                |          |      |

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-16535

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

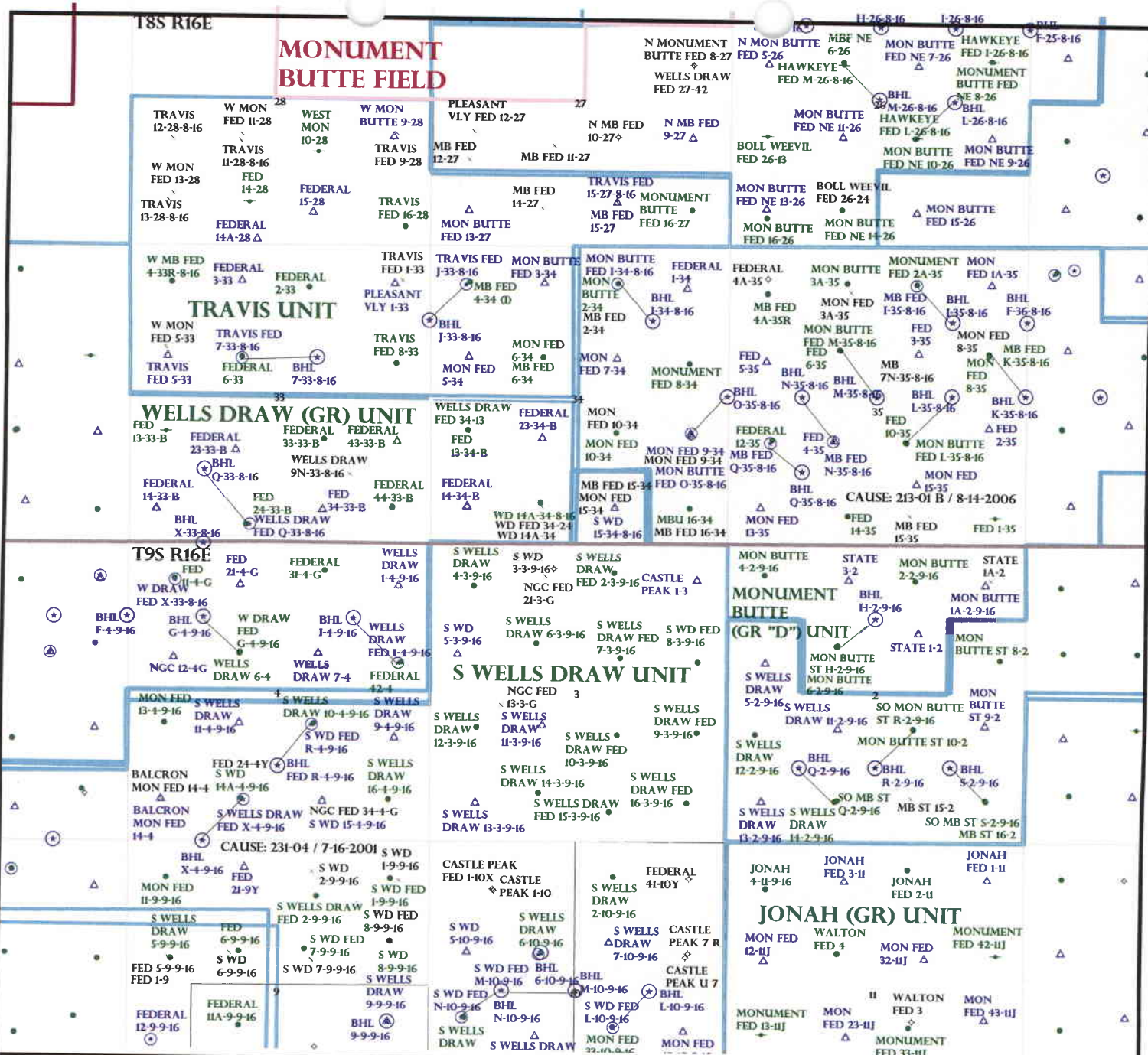
☒ Plat  
☒ Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. WYB000493 )  
☒ Potash (Y/N)  
☒ Oil Shale 190-5 (B) or 190-3 or 190-13  
☒ Water Permit  
(No. 43-10136 )  
☒ RDCC Review (Y/N)  
(Date: )  
☒ Fee Surf Agreement (Y/N)  
☒ Intent to Commingle (Y/N)

LOCATION AND SITING:

☐ R649-2-3.  
Unit: MONUMENT BUTTE (GR D)  
☐ R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells  
☐ R649-3-3. Exception  
☐ Drilling Unit  
Board Cause No: 243-01(B)  
Eff Date: 10/25/08  
Siting: Suspected Small Spring  
☒ R649-3-11. Directional Drill

COMMENTS: Sag, Separate Btu

STIPULATIONS: 1- Federal Approval



OPERATOR: NEWFIELD PROD CO (N2695)

SEC: 34,35 T.8S R. 16E

FIELD: MONUMENT BUTTE (105)

COUNTY: DUCHESNE

CAUSE: 213-01 B 10/25/2006

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:  
3160  
(UT-922)

January 17, 2008

### Memorandum

To: Assistant District Manager Minerals, Vernal District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2007 Plan of Development Monument Butte Unit, Duchesne County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following well is planned for calendar year 2007 within the Monument Butte Unit, Duchesne County, Utah.

| API #                     | WELL NAME               | LOCATION   |
|---------------------------|-------------------------|--|
| (Proposed PZ Green River) |                         |  |
| 43-013-33871              | Mon Butte Fed I-34-8-16 | Sec 34 T08S R16E 0657 FNL 1967 FEL<br>BHL Sec 34 T08S R16E 1309 FNL 1334 FEL |
| 43-013-33873              | Mon Butte Fed O-35-8-16 | Sec 34 T08S R16E 1990 FSL 0636 FEL<br>BHL Sec 35 T08S R16E 2638 FSL 0000 FWL |
| 43-013-33872              | Mon Butte Fed N-35-8-16 | Sec 35 T08S R16E 1856 FSL 1871 FWL<br>BHL Sec 35 T08S R16E 2642 FSL 1321 FWL |

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File – Monument Butte Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron



January 25, 2008

State of Utah, Division of Oil, Gas and Mining  
ATTN: Diana Mason  
PO Box 145801  
Salt Lake City, UT 84114-5801

RE: Directional Drilling  
**Mon Butte Federal I-34-8-16**  
Monument Butte Unit  
UT080P49-8861680  
Surface Hole: T8S R16E, Section 34: NW/4NE/4  
657' FNL 1967' FEL  
Bottom Hole: T8S R16E, Section 34:  
1309' FNL 1334' FEL  
Duchesne County, Utah

Dear Ms. Mason;

Pursuant to the filing of Newfield Production Company's ("NPC") Application for Permit to Drill dated December 11, 2007, a copy of which is attached, for the above referenced well, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

The surface hole location and bottom hole location of this well are both within the boundaries of the Monument Butte Federal Unit UT080P49-8861680. Newfield certifies that it is the Monument Butte Unit Operator and all lands within 460 feet of the entire directional well bore are within the Monument Butte Unit.

NPC is permitting this well as a directional well in order to minimize surface disturbance. By directionally drilling from the referenced surface location, NPC will be able to utilize the existing roads and pipelines in this area.

NPC hereby requests our application for permit to drill be granted pursuant to R649-3-11. If you have any questions or require further information, please do not hesitate to contact the undersigned at 303-382-4444 or by email at [reveland@newfield.com](mailto:reveland@newfield.com). Your consideration of this matter is greatly appreciated.

Sincerely,  
NEWFIELD PRODUCTION COMPANY

*Roxann Eveland*

Roxann Eveland  
Land Associate

RECEIVED  
JAN 31 2008  
DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
**APPLICATION FOR PERMIT TO DRILL OR REENTER**

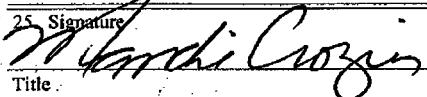
FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

|  |
|--|
| 5. Lease Serial No.<br><b>UTU-16535</b>                                      |
| 6. If Indian, Allottee or Tribe Name<br><b>N/A</b>                           |
| 7. If Unit or CA Agreement, Name and No.<br><b>Monument Butte</b>            |
| 8. Lease Name and Well No.<br><b>Mon. Butte Federal I-34-8-16</b>            |
| 9. API Well No.  |
| 10. Field and Pool, or Exploratory<br><b>Monument Butte</b>                  |
| 11. Sec., T., R., M., or Blk. and Survey or Area<br><b>Sec. 34, T8S R16E</b> |
| 12. County or Parish<br><b>Duchesne</b>                                      |
| 13. State<br><b>UT</b>   |

|  |  |   |
|--|--|---|
| 1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER   |  |   |
| 1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone |  |   |
| 2. Name of Operator<br><b>Newfield Production Company</b>  |  |   |
| 3a. Address<br><b>Route #3 Box 3630, Myton UT 84052</b>  | 3b. Phone No. (include area code)<br><b>(435) 646-3721</b>       |   |
| 4. Location of Well (Report location clearly and in accordance with any State requirements. *)<br>At surface <b>NW/NE 657' FNL 1967' FEL</b><br>At proposed prod. zone <b>1309' FNL 1334' FEL</b>                      |  |   |
| 14. Distance in miles and direction from nearest town or post office*<br><b>Approximately 10.7 miles southwest of Myton, Utah</b>  |  |   |
| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) <b>Approx. 1306' f/line, 1306' f/unit</b>  | 16. No. of Acres in lease<br><b>920.00</b>                       | 17. Spacing Unit dedicated to this well<br><b>20 Acres</b>                              |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>Approx. 1297'</b>  | 19. Proposed Depth<br><b>6470'</b>                               | 20. BLM/BIA Bond No. on file<br><b>WYB000493</b>  |
| 21. Elevation (Show whether DF, KDB, RT, GL, etc.)<br><b>5594' GL</b>  | 22. Approximate date work will start*<br><b>1st Quarter 2008</b> | 23. Estimated duration<br><b>Approximately seven (7) days from spud to rig release.</b> |
| 24. Attachments  |  |   |

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification.   |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

|  |   |                         |
|--|---|-------------------------|
| 25. Signature<br> | Name (Printed/Typed)<br><b>Mandie Crozier</b> | Date<br><b>12/11/07</b> |
| Title<br><b>Regulatory Technician</b>  |   |                         |
| Approved by (Signature)  | Name (Printed/Typed)                          | Date                    |
| Title  | Office  |                         |

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

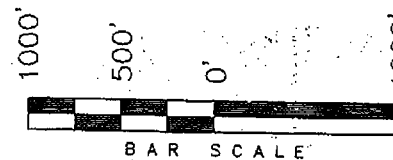
\*(Instructions on reverse)

RECEIVED  
JAN 31 2008  
DIV. OF OIL, GAS & MINING

**T8S, R16E, S.L.B.&M.**

**NEWFIELD PRODUCTION COMPANY**

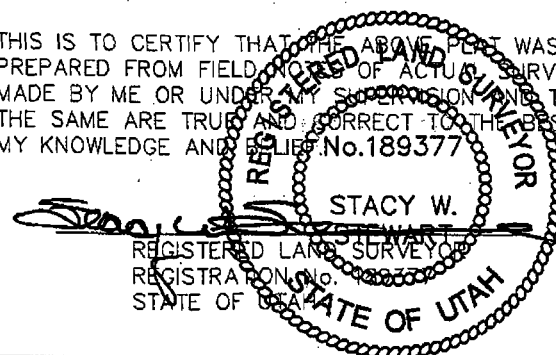
WELL LOCATION, MONUMENT BUTTE  
I-34-8-16, LOCATED AS SHOWN IN THE  
NW 1/4 NE 1/4 OF SECTION 34, T8S,  
R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



**Note:**  
The bottom of hole bears S44°00'41"E  
911.71' from the Well head.



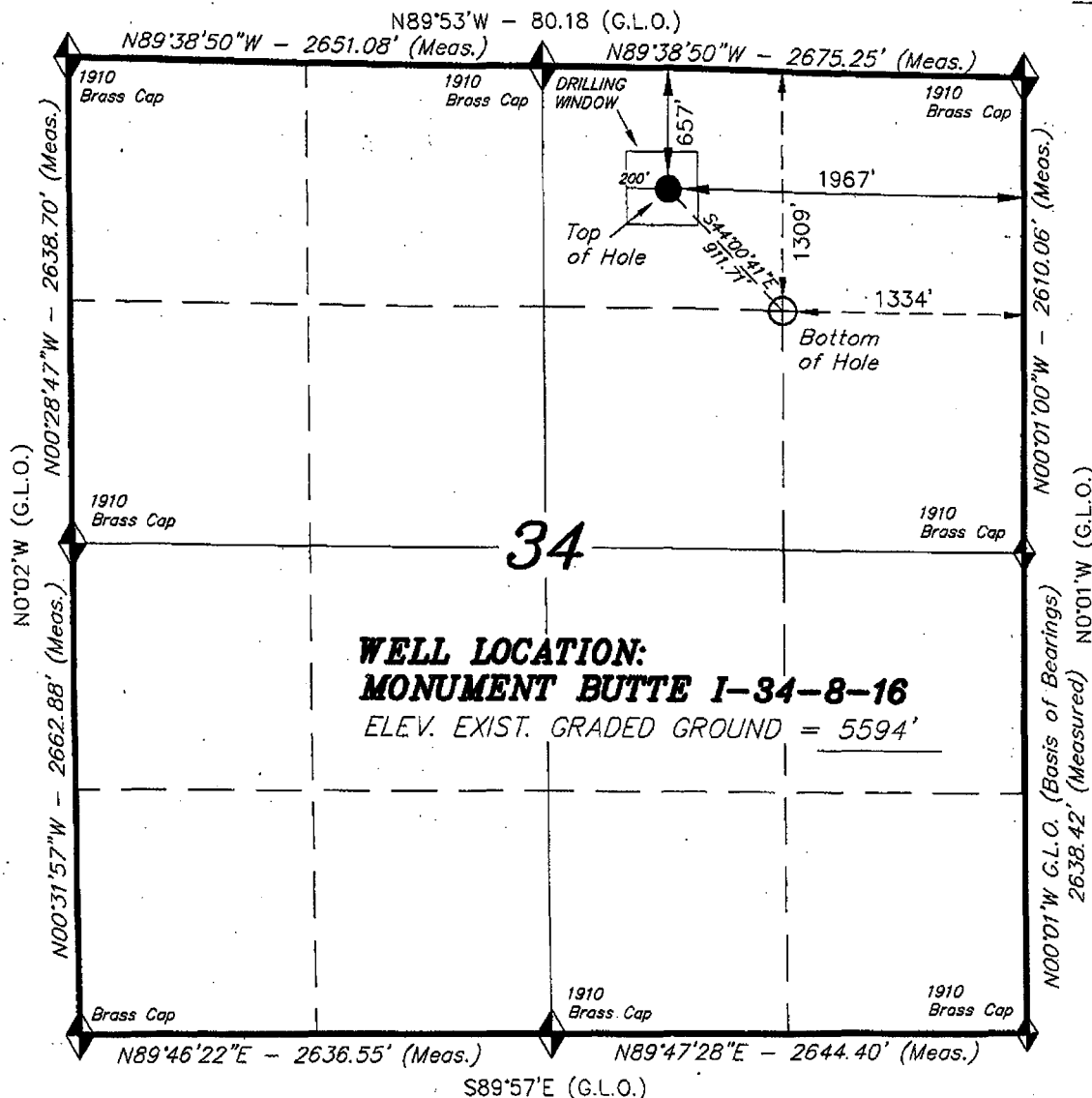
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST OF  
MY KNOWLEDGE AND BELIEF. No. 189377



**TRI STATE LAND SURVEYING & CONSULTING**

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

|                            |                   |
|----------------------------|-------------------|
| DATE SURVEYED:<br>09-21-07 | SURVEYED BY: T.H. |
| DATE DRAWN:<br>10-12-07    | DRAWN BY: F.T.M.  |
| REVISED:                   | SCALE: 1" = 1000' |



◆ = SECTION CORNERS LOCATED

BASIS OF ELEV;  
U.S.G.S. 7-1/2 min QUAD (MYTON SE)

**MONUMENT BUTTE I-34-8-16**  
(Surface Location) NAD 83  
LATITUDE = 40° 04' 47.25"  
LONGITUDE = 110° 06' 11.25"



JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil Gas and Mining

JOHN R. BAZA  
Division Director

January 31, 2008

Newfield Production Company  
Rt. #3, Box 3630  
Myton, UT 84052

Re: Monument Butte Federal I-34-8-16 Well, Surface Location 657' FNL, 1967' FEL,  
NW NE, Sec. 34, T. 8 South, R. 16 East, Bottom Location 1309' FNL, 1334' FEL,  
NW NE, Sec. 34, T. 8 South, R. 16 East, Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-33871.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Duchesne County Assessor  
Bureau of Land Management, Vernal Office

Operator: Newfield Production Company  
Well Name & Number Monument Butte Federal I-34-8-16  
API Number: 43-013-33871  
Lease: UTU-16535

Surface Location: NW NE      Sec. 34      T. 8 South      R. 16 East  
Bottom Location: NW NE      Sec. 34      T. 8 South      R. 16 East

### Conditions of Approval

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### 2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281      (801) 733-0983 home

#### 3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
5. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.

**UTU-16535**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**MONUMENT BUTTE**

8. Well Name and No.

**MON BUTTE FED I-34-8-16**

9. API Well No.

**43-013-33871**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UT.**

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

**NEWFIELD PRODUCTION COMPANY**

3. Address and Telephone No.

**Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

**657 FNL 1967 FEL NW/NE Section 34, T8S R16E**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

**TYPE OF SUBMISSION**

☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

**TYPE OF ACTION**

☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other **Permit Extension**

☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Newfield Production Company requests to extend the Permit to Drill this well for one year.

**COPY SENT TO OPERATOR**

Date: 1.13.2009

Initials: KS

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 01-12-09  
By: [Signature]

**RECEIVED**

**JAN 08 2009**

**DIV. OF OIL, GAS & MINING**

14. I hereby certify that the foregoing is true and correct

Signed [Signature] Title Regulatory Specialist Date 1/5/2009  
Mandie Crozier

CC: UTAH DOGM

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any:

CC: Utah DOGM

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RESET

**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 43-013-33871  
**Well Name:** Mon. Butte Federal I-34-8-16  
**Location:** NW/NE Section 34, T8S R16E  
**Company Permit Issued to:** Newfield Production Company  
**Date Original Permit Issued:** 1/31/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☒

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒

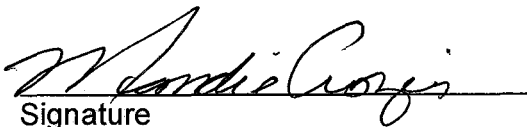
Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐

  
Signature

1/5/2009

Date

Title: Regulatory Specialist

Representing: Newfield Production Company

RECEIVED

JAN 08 2009

DIV. OF OIL, GAS & MINING

# RECEIVED

JAN 14 2008

Form 3160-3  
(September 2001)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

2008 FEB 29 PM 1:47

BUREAU OF LAND

5. Lease Serial No.

UTU-16535

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA Agreement, Name and No.

Monument Butte

8. Lease Name and Well No.

Mon. Butte Federal I-34-8-16

9. API Well No.

43 013 33871

10. Field and Pool, or Exploratory

Monument Butte

11. Sec., T., R., M., or Blk. and Survey or Area

Sec. 34, T8S R16E

12. County or Parish

Duchesne

13. State

UT

1a. Type of Work: ☒ DRILL

☐ REENTER

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other

☒ Single Zone ☐ Multiple Zone

2. Name of Operator

Newfield Production Company

3a. Address

Route #3 Box 3630, Myton UT 84052

3b. Phone No. (include area code)

(435) 646-3721

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)

At surface NW/NE 657' FNL 1967' FEL

At proposed prod. zone SE/NE 1544' FNL 1131' FEL

14. Distance in miles and direction from nearest town or post office\*

Approximatley 10.7 miles southwest of Myton, Utah

15. Distance from proposed\*

location to nearest  
property or lease line, ft.

(Also to nearest drig. unit line, if any) Approx. 1509' f/lse, 1509' f/unit

16. No. of Acres in lease

920.00

17. Spacing Unit dedicated to this well

20 Acres

18. Distance from proposed location\*  
to nearest well, drilling, completed,  
applied for, on this lease, ft.

Approx. 1735'

19. Proposed Depth

6470'

20. BLM/BIA Bond No. on file

WYB000493

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

5594' GL

22. Approximate date work will start\*

1st Quarter 2008

23. Estimated duration

Approximately seven (7) days from spud to rig release.

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.

2. A Drilling Plan.

3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).

5. Operator certification.

6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature

Name (Printed/Typed)

Date

Mandie Crozier

2/22/08

Title

Regulatory Technician

Approved by (Signature)

Name (Printed/Typed)

Date

JERRY KUCZKA

MAR 19 2009

Title

Assistant Field Manager  
Lands & Mineral Resources

Office

VERNAL FIELD OFFICE

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

## CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

### NOTICE OF APPROVAL

UDOGM

## RECEIVED

MAR 25 2009

DIV. OF OIL, GAS & MINING

08PP0199A

NOS 11/09/07

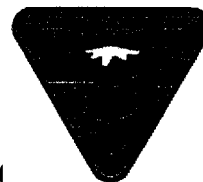


UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4401



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company: Newfield Production Company

Location: NWNE, Sec. 34, T8S, R16E (S)  
SENE, Sec. 34, T8S, R16E (B)

Well No: Federal I-34-8-16

Lease No: UTU-16535

API No: 43-013-33871

Agreement: N/A

| Title                             | Name               | Office Phone Number | Cell Phone Number |
|-----------------------------------|--------------------|---------------------|-------------------|
| Petroleum Engineer                | Matt Baker         | (435) 781-4490      | (435) 828-4470    |
| Petroleum Engineer                | Michael Lee        | (435) 781-4432      | (435) 828-7875    |
| Petroleum Engineer                | Ryan Angus         | (435) 781-4430      | (435) 828-7368    |
| Supervisory Petroleum Technician: | Jamie Sparger      | (435) 781-4502      | (435) 828-3913    |
| Supervisory NRS                   | Karl Wright        | (435) 781-4484      |                   |
| NRS/Enviro Scientist              | Christine Cimiluca | (435) 781-4475      |                   |
| NRS/Enviro Scientist              | Dan Emmett         | (435) 781-3414      | (435) 828-4029    |
| NRS/Enviro Scientist              | Anna Figueroa      | (435) 781-3407      | (435) 828-3548    |
| NRS/Enviro Scientist              | Lori Ford          | (435) 781-4406      |                   |
| NRS/Enviro Scientist              | David Gordon       | (435) 781-4424      |                   |
| NRS/Enviro Scientist              | James Hereford     | (435) 781-3412      | (435) 828-3546    |
| NRS/Enviro Scientist              | Chuck Macdonald    | 435) 781-4441       | (435) 828-7481    |
| NRS/Enviro Scientist              | Nathan Packer      | (435) 781-3405      | (435) 828-3545    |
| NRS/Enviro Scientist              | Paul Percival      | (435) 781-4493      | (435) 828-7381    |
| NRS/Enviro Scientist              | Verlyn Pindell     | (435) 781-3402      | (435) 828-3547    |
| NRS/Enviro Scientist              | Holly Villa        | (435) 781-4404      | (435) 828-3544    |
|                                   |                    | Fax: (435) 781-3420 |                   |

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

|   |   |  |
|---|---|--|
| Location Construction<br>(Notify Environmental Scientist)       | - | Forty-Eight (48) hours prior to construction of location and access roads.   |
| Location Completion<br>(Notify Environmental Scientist)         | - | Prior to moving on the drilling rig.   |
| Spud Notice<br>(Notify Petroleum Engineer)                      | - | Twenty-Four (24) hours prior to spudding the well.   |
| Casing String & Cementing<br>(Notify Supv. Petroleum Tech.)     | - | Twenty-Four (24) hours prior to running casing and cementing all casing strings.   |
| BOP & Related Equipment Tests<br>(Notify Supv. Petroleum Tech.) | - | Twenty-Four (24) hours prior to initiating pressure tests.   |
| First Production Notice<br>(Notify Petroleum Engineer)          | - | Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days. |

**SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO<sub>x</sub> per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO<sub>x</sub> per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

**SURFACE CONDITIONS OF APPROVAL**

**NEPA Document number:** DOI-BLM-UT-2008-0695-EA

**Company/Operator:** Newfield Production Company

**Well Name & Number:** Travis Federal G-34-8-16, Monument Butte State P-36-8-16, and Monument Butte Federal I-34-8-16, Monument Butte Federal N-35-8-16, Wells Draw Federal P-34-8-16, Monument Butte Federal I-35-8-16, Monument Butte Federal O-35-8-16, and Monument Butte Federal J-34-8-16

**Surface Ownership:** BLM

**CONDITIONS OF APPROVAL:**

Within 90 calendar days of the approval date for this Application for Permit to Drill (APD), the operator/lessee shall submit to the Authorized Officer (AO), on Sundry Notice Form 3160-5, an Interim/Final Surface Reclamation Plan for surface disturbance on well pads, access roads, and pipelines. At a minimum, this will include the reshaping of the pad to the original contour to the extent possible; the re-spreading of the top soil up to the rig anchor points; and, the area reseeded using appropriate reclamation methods. The AO will provide written approval or concurrence within 30 calendar days of receipt.

**Interim and Final Reclamation**

Reclamation Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, and trash. Any hydrocarbons in the pit will be removed in accordance with 43 CFR 3162.7-1. The reserve pit and the portion of the well not needed for production facilities/operations will be re-contoured to the approximate natural contours. The reserve pit will be reclaimed within 120 days from the date of well completion, or as soon as environmental conditions allow. The stockpiled pit topsoil will then be spread over the pit area. Seeding shall be implemented in the fall only, between August 15 and December 15. The seed shall be drilled wherever possible. If the seed is

aerially broadcasted, then the seed shall be covered immediately (crimped into the topsoil with a bulldozer or other heavy equipment). *Forage Kochia shall be applied to the surface and not covered.* If initial seeding is not successful, reseeding may be required.

**Interim and Final Seed mix:**

| Common name                | Latin name  | lbs/acre | Recommended seed planting depth |
|----------------------------|---|----------|---------------------------------|
| Sandberg bluegrass         | <i>Poa secunda</i>                                | 2.0      | 1/4 - 1/2"                      |
| Shadscale saltbush         | <i>Atriplex confertifolia</i>                     | 0.50     | 1/2"                            |
| Four-wing saltbush         | <i>Atriplex canescens</i>                         | 0.50     | 1/2"                            |
| Scarlet globemallow        | <i>Sphaeralcea coccinea</i>                       | 0.10     | 1/8 - 1/4"                      |
| Western wheatgrass         | <i>Pascopyrum smithii</i>                         | 2.0      | 1/2"                            |
| Ephraim Crested Wheatgrass | <i>Agropyron cristatum</i><br>var. <i>Ephraim</i> | 2.0      | 1/2"                            |
| Ladak Alfalfa              | <i>Medicago sativa</i> var.<br><i>Ladak</i>       | 1.0      | 1/2"                            |

- All pounds are pure live seed.
- All seed and mulch will be certified weed free.
- Rates are set for drill seeding; double rate if broadcasting.
- Reseeding may be required if initial seeding is not successful.

**Final reclamation:**

Once the location is plugged and abandoned, the well location, access, and any disturbed areas shall be re-contoured to natural topography, topsoil shall be re-spread, and the entire location shall be seeded following guidelines in the seed mix bullet statement above. *Final seed mix:* same as interim unless otherwise instructed.

**DOWNHOLE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**SITE SPECIFIC DOWNHOLE COAs:**

- Well location TD bottom footage hole location information on the completion form 3160-4 Well Completion or Recompletion Report and Log should match and be in agreement with the from the actual drilling directional survey well departure values for the TD bottom hole location.
- A copy of the as drilled directional survey shall be submitted to the BLM Vernal Field Office. Submit the MWD-GR survey from the directional/horizontal drilling operations, hard copy or electronically.
- Logging: A Gamma Ray well Log shall be run from the well Total Depth to the surface. A copy of the Gamma Ray well Log shall be submitted to the BLM Vernal Field Office.
- A copy of Newfield's Standard Operating Practices (SOP version: dated 4/18/08 and approved 5/12/08) shall be on location.
- Drilling plan specifics and practices are referenced in the Newfield Standard Operating Procedures (SOP version: April 18, 2008). The operators drilling plan items 4 to 8 reference the SOP. Newfield shall adhere to the referenced requirements in the SOP.  
Newfield and their contractors shall adhere to all Oil and Gas rules and requirements listed in the Code of Federal Regulations and all Federal Onshore Oil and Gas Orders except where variances have been granted.
- Production casing cement shall be brought up and into the surface.
- Covering air/gas drilling operations, requirements will be adhered to covering air/gas drilling operations as described in Onshore Order #2 III. E. 1. Drilling Operations, Special Drilling Operations, air/gas drilling.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.

- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**



- There shall be no deviation from the proposed drilling, completion, and/or work-over program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

## OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (1/4 1/4, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion

Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, work-over, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
ENTITY ACTION FORM - FORM 6

OPERATOR: NEWFIELD PRODUCTION COMPANY  
ADDRESS: RT. 3 BOX 3630  
MYTON, UT 84052

OPERATOR ACCT NO. N2695

| ACTION CODE         | CURRENT ENTITY NO | NEW ENTITY NO | API NUMBER   | WELL NAME                  | WELL LOCATION |    |    |     |          | SPUD DATE | EFFECTIVE DATE |
|---------------------|-------------------|---------------|--------------|----------------------------|---------------|----|----|-----|----------|-----------|----------------|
|                     |                   |               |              |                            | QQ            | SC | TP | RG  | COUNTY   |           |                |
| A                   | 99999             | 17393         | 43-013-50080 | WEDIG 11-22-4-1            | NESW          | 22 | 4S | 1W  | DUCHESNE | 10/12/09  | 10/27/09       |
| WELL COMMENTS: GRUV |                   |               |              |                            |               |    |    |     |          |           |                |
| B                   | 99999             | 12021         | 43-047-40244 | Pariette FEDERAL K-34-8-18 | SENE          | 34 | 8S | 18E | UINTAH   | 10/14/09  | 10/27/09       |
| GRUV BHL = SENE     |                   |               |              |                            |               |    |    |     |          |           |                |
| B                   | 99999             | 10835         | 43-013-33873 | MONUMENT BUTTE O-35-8-16   | NESE          | 34 | 8S | 16E | DUCHESNE | 10/16/09  | 10/27/09       |
| GRUV BHL = 35 NWSW  |                   |               |              |                            |               |    |    |     |          |           |                |
| B                   | 99999             | 10835         | 43-013-33871 | MONUMENT BUTTE I-34-8-16   | NWNE          | 34 | 8S | 16E | DUCHESNE | 10/14/09  | 10/27/09       |
| GRUV BHL = NWNE     |                   |               |              |                            |               |    |    |     |          |           |                |
| B                   | 99999             | 10835         | 43-013-33872 | MONUMENT BUTTE N-35-8-16   | NESW          | 35 | 8S | 16E | DUCHESNE | 10/13/09  | 10/27/09       |
| GRUV BHL = NESW     |                   |               |              |                            |               |    |    |     |          |           |                |
| WELL COMMENTS:      |                   |               |              |                            |               |    |    |     |          |           |                |

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

RECEIVED

OCT 20 2009

DIV. OF OIL, GAS & MINING

Kim Swasey  
Signature  
Kim Swasey  
Production Analyst  
10/20/2009  
Date

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**SUBMIT IN TRIPLICATE - Other Instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address

Route 3 Box 3630  
Myton, UT 84052

3b. Phone (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

657 FNL 1667 FEL

NWNE Section 34 T8S R16E

5. Lease Serial No.

USA UTU-16535

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

MON BUTTE UNIT

8. Well Name and No.

FEDERAL I-34-8-16

9. API Well No.

4301333871

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

| TYPE OF SUBMISSION                                    | TYPE OF ACTION                               |   |  |   |
|---|--|---|--|---|
| <input type="checkbox"/> Notice of Intent             | <input type="checkbox"/> Acidize             | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off         |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing        | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity         |
| <input type="checkbox"/> Final Abandonment            | <input type="checkbox"/> Casing Repair       | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete                | <input checked="" type="checkbox"/> Other _____ |
|   | <input type="checkbox"/> Change Plans        | <input type="checkbox"/> Plug & Abandon   | <input type="checkbox"/> Temporarily Abandon       | Spud Notice                                     |
|   | <input type="checkbox"/> Convert to Injector | <input type="checkbox"/> Plug Back        | <input type="checkbox"/> Water Disposal            |   |

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 10-14-09 MIRU ROSS spud rig #21. Drill 315' of 12 1/4" hole with air mist. TIH W/7 Jt's 8 5/8" J-55 24# csgn. Set @ 321.93.  
On 10-15-09 Cement with 160 sks of Class "G" w/ 2% CaCL+ 1/4# Cello Flake. Mixed @ 15.8 ppg> 1.17 cf/sk yeild. Returned 4bbls cement to pit.

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Xabier Lasa

Signature

Title

Drilling Foreman

Date

10/24/2009

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

OCT 29 2009

DEPT. OF OIL, GAS & MINING

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8" CASING SET AT 321.93

LAST CASING 8 5/8" SET AT 321.93  
 DATUM 12  
 DATUM TO CUT OFF CASING 12  
 DATUM TO BRADENHEAD FLANGE 12  
 TD DRILLER 315 LOGGER \_\_\_\_\_  
 HOLE SIZE 12 1/4"

OPERATOR Newfield Exploration Company  
 WELL MON BT I-34-8-16  
 FIELD/PROSPECT \_\_\_\_\_  
 CONTRACTOR & RIG # Ross # 21

## LOG OF CASING STRING:

| PIECES | OD     | ITEM - MAKE - DESCRIPTION | WT / FT | GRD  | THREAD | CONDT | LENGTH |
|--------|--------|---------------------------|---------|------|--------|-------|--------|
| 1      | 8 5/8" | Guide shoe                |         |      |        | A     | 0.95   |
| 7      | 8 5/8" | Casing ( Shoe Jt. 44.55') | 24      | J-55 | STC    | A     | 310.08 |
| 1      |        | Wellhead                  |         |      |        | A     | 0.9    |
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COMPANY REPRESENTATIVE

## Xabier Lasa

DATE 10/16/2009



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**SUBMIT IN TRIPLICATE - Other Instructions on page 2**

1. Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630  
Myton, UT 84052

3b. Phone (include area code)  
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
657 FNL 1667 FEL  
NWNE Section 34 T8S R16E

5. Lease Serial No.

USA UTU-16535

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or  
MON BUTTE UNIT

8. Well Name and No.  
FEDERAL I-34-8-16

9. API Well No.  
4301333871

10. Field and Pool, or Exploratory Area  
MONUMENT BUTTE

11. County or Parish, State  
DUCHESNE, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

| TYPE OF SUBMISSION                                    | TYPE OF ACTION                               |   |  |   |
|---|--|---|--|---|
| <input type="checkbox"/> Notice of Intent             | <input type="checkbox"/> Acidize             | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off         |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing        | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity         |
| <input type="checkbox"/> Final Abandonment            | <input type="checkbox"/> Casing Repair       | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete                | <input checked="" type="checkbox"/> Other _____ |
|   | <input type="checkbox"/> Change Plans        | <input type="checkbox"/> Plug & Abandon   | <input type="checkbox"/> Temporarily Abandon       | Weekly Status Report _____                      |
|   | <input type="checkbox"/> Convert to Injector | <input type="checkbox"/> Plug Back        | <input type="checkbox"/> Water Disposal            |   |

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 11/13/09 MIRU Elemburg Rig # 28. Set all equipment. Pressure test Kelly, TIW, Choke manifold, Hydil, HCR & Bop's to 2,000 psi. Test 8.625 csgn to 1,500 psi. Vernal BLM field, & Roosevelt DOGM office was notified of test. PU BHA and tag cement @ 275'. Drill out cement & shoe. Drill a 7.875 hole with fresh water to a depth of 6,555' & a TVD of 6411'. Lay down drill string & BHA. Open hole log w/ Dig/SP/GR log's TD to surface. PU & TIH with Guide shoe, shoe jt, float collar, 155 jt's of 5.5 J-55, 15.5# csgn. Set @ 6548.44' / KB. Cement with 281 sks cement mixed @ 11.0 ppg & 3.53 yld. Then 425 sks cement mixed @ 14.4 ppg & 1.24 yld. With 45 bbls cement returned to pit. Nipple down Bop's. Drop slips @ 90,000 #'s tension. Release rig 1:00 PM 11/18/09.

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Alvin Nielsen

Signature

*Alvin Nielsen*

Title

Drilling Foreman

Date

11/19/2009

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by .....

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

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NOV 25 2009

DIV. OF OIL, GAS & MINING

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

**5 1/2" CASING SET AT 6548.44**

|                            |               |           |               |
|----------------------------|---------------|-----------|---------------|
| LAST CASING                | <u>8 5/8"</u> | SET AT    | <u>321.93</u> |
| DATUM                      | <u>13</u>     |           |               |
| DATUM TO CUT OFF CASING    |               | <u>13</u> |               |
| DATUM TO BRADENHEAD FLANGE |               | <u>13</u> |               |
| TD DRILLER                 | <u>6555</u>   | LOGC      | <u>6545</u>   |
| HOLE SIZE                  | <u>7 7/8"</u> |           |               |

OPERATOR Newfield Exploration Company  
WELL MON BT I-34-8-16  
FIELD/PROSPECT Mon Butte  
CONTRACTOR & RIG # Elemburg # 28

## LOG OF CASING STRING:

[illegible]

[illegible]

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

|   |  |  |
|---|--|--|
| 1. TYPE OF WELL:<br>OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> |  | 5. LEASE DESIGNATION AND SERIAL NUMBER:<br>USA UTU-16535 |
| 2. NAME OF OPERATOR:<br>NEWFIELD PRODUCTION COMPANY   |  | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME:                    |
| 3. ADDRESS OF OPERATOR:<br>Route 3 Box 3630 CITY Myton STATE UT ZIP 84052   |  | 7. UNIT or CA AGREEMENT NAME:<br>GMBU                    |
| 4. LOCATION OF WELL:<br>FOOTAGES AT SURFACE: 657 FNL 1667 FEL   |  | 8. WELL NAME and NUMBER:<br>FEDERAL I-34-8-16            |
| OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NWN, 34, T8S, R16E   |  | 9. API NUMBER:<br>4301333871                             |
|   |  | 10. FIELD AND POOL, OR WILDCAT:<br>MONUMENT BUTTE        |
|   |  | COUNTY: DUCHESNE   |
|   |  | STATE: UT  |

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION   | TYPE OF ACTION  |  |  |
|--|---|--|--|
| <input type="checkbox"/> NOTICE OF INTENT<br>(Submit in Duplicate)<br><br>Approximate date work will<br>_____                      | <input type="checkbox"/> ACIDIZE<br><input type="checkbox"/> ALTER CASING<br><input type="checkbox"/> CASING REPAIR<br><input type="checkbox"/> CHANGE TO PREVIOUS PLANS<br><input type="checkbox"/> CHANGE TUBING<br><input type="checkbox"/> CHANGE WELL NAME<br><input type="checkbox"/> CHANGE WELL STATUS<br><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS<br><input type="checkbox"/> CONVERT WELL TYPE | <input type="checkbox"/> DEEPEN<br><input type="checkbox"/> FRACTURE TREAT<br><input type="checkbox"/> NEW CONSTRUCTION<br><input type="checkbox"/> OPERATOR CHANGE<br><input type="checkbox"/> PLUG AND ABANDON<br><input type="checkbox"/> PLUG BACK<br><input type="checkbox"/> PRODUCTION (START/STOP)<br><input type="checkbox"/> RECLAMATION OF WELL SITE<br><input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION | <input type="checkbox"/> REPERFORATE CURRENT FORMATION<br><input type="checkbox"/> SIDETRACK TO REPAIR WELL<br><input type="checkbox"/> TEMPORARILY ABANDON<br><input type="checkbox"/> TUBING REPAIR<br><input type="checkbox"/> VENT OR FLAIR<br><input type="checkbox"/> WATER DISPOSAL<br><input type="checkbox"/> WATER SHUT-OFF<br><input checked="" type="checkbox"/> OTHER: - Weekly Status Report |
| <input checked="" type="checkbox"/> SUBSEQUENT REPORT<br>(Submit Original Form Only)<br><br>Date of Work Completion:<br>12/17/2009 |   |  |  |

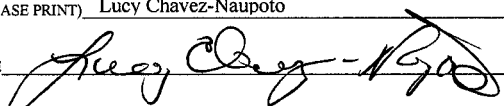
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above subject well was completed on 12-17-09, attached is a daily completion status report.

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DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Lucy Chavez-Naupoto TITLE Administrative Assistant  
SIGNATURE  DATE 12/22/2009

(This space for State use only)

**Daily Activity Report****Format For Sundry****MON BT I-34-8-16****10/1/2009 To 2/28/2010****RECEIVED****DEC 20 2009****DIV. OF OIL, GAS & MINING****12/1/2009 Day: 1****Completion**

Rigless on 12/1/2009 - Run CBL & shoot first stage. - Install 5M frac head. NU 6" 5M Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 6445' cement top @ 58'. Perforate stage #1 BSL sds @ 6401-04' & 6366-69' & CP5 sds @ 6346-50' w/ 3 1/8" port plug guns (11 gram, .36" EH, 120°, 16.82" pen, PPG-3111-301 Titan) w/ 3 spf for total of 30 shots. 155 BWTR. SWIFN.

**Daily Cost: \$0****Cumulative Cost: \$10,963****12/3/2009 Day: 2****Completion**

Rigless on 12/3/2009 - Frac well. - Stage #1: RU BJ Services "Ram Head" frac flange. Open well w/ 44 psi on casing. RU BJ & perfs broke down @ 3913 psi back to 2777 psi w/ 5 bbls water @ 3 bpm. ISIP was 2711 w/ .86FG. 1 min was 2006. 4 min was 1721. Pump 250 gals of 15% HCL acid. Pump 30 gals of Techni Hib chemical @ 4% by volume. Frac w/ 24,558#'s of 20/40 sand in 413 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2970 w/ ave rate of 35 bpm w/ 6 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2363 w/ .81FG. 5 min was 2200. 10 min was 2171. 15 min was 2148. Leave pressure on well. 568 Bbls EWTR. - Stage #2: RU Perforators LLC WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" (6K) composite flow through frac plug & 6' perf gun. Set plug @ 6130'. Perforate CP.5 sds @ 6028-34' w/ 3-1/8" Port Guns (11 gram, .36"EH, 120°, PPG-3111-301 Tritan) w/ 3 spf for total of 18 shots. RU BJ & open well w/ 1844 psi on casing. Perfs broke down @ 3780 psi back to 2428 psi w/ 10 bbls water @ 3 bpm. ISIP was 2029 w/ .78FG. Pressure to low to wait. Pump 30 gals of Techni Hib chemical @ 4% by volume. Frac w/ 10,657#'s of 20/40 sand in 268 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2460 w/ ave rate of 22 bpm w/ 6 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2115 w/ .79FG. 5 min was 1998. 10 min was 1960. 15 min was 1932. Leave pressure on well. 836 Bbls EWTR. - Stage #3: RU WLT. RIH w/ frac plug & 4', 4', 3' guns. Set plug @ 5810'. Perforate LODC sds @ 5706-10', 5690-94', 5678-81' w/ 3 spf for total of 33 shots. RU BJ & open well w/ 1826 psi on casing. Perfs broke down @ 3154 psi back to 2097 psi w/ 4 bbls water @ 3 bpm. ISIP was 1826 w/ .76FG. Pressure to low so went back to pump. Pump 30 gals of Techni Hib chemical @ 4% by volume. Frac w/ 160,910#'s of 20/40 sand in 1133 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2886 w/ ave rate of 45 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2374 w/ .86FG. 5 min was 2270. 10 min was 2249. 15 min was 2218. Leave pressure on well. 1969 Bbls EWTR. - Stage #4: RU WLT. RIH w/ frac plug & 3', 2', 4' perf guns. Set plug @ 5640'. Perforate A3 sds @ 5616-19', A1 sds @ 5581-83', 5566-70' w/ 3 spf for total of 27 shots. RU BJ & open well w/ 1864 psi on casing. Perfs broke down @ 2384 psi back to 2132 psi w/ 5 bbls water @ 3 bpm. ISIP was 1864 w/ .77FG. Pressure to low to shut down. Pump 30 gals of Techni Hib chemical @ 4% by volume. Frac w/ 70,541#'s of 20/40 sand in 600 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 3096 w/ ave rate of 41 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2850 w/ .95FG. 5 min was 2634. 10 min was 2379. 15 min was 2354. Leave pressure on well. 2567 Bbls EWTR. - Stage #5: RU WLT. RIH w/ frac plug & 10' perf guns. Set plug @ 5220'. Perforate D1 sds @ 5118-28' w/ 3 spf for total of 30 shots. RU BJ & open well w/ 1865 psi on casing. Perfs broke down @ 3349 psi back to 2267 psi w/ 4 bbls water @ 5 bpm. ISIP was 2164 w/ .86FG. 1 min was 2080. 4 min was 2051. Pump 30 gals of Techni Hib chemical @ 4% by volume. Frac w/ 46,288#'s of 20/40 sand in 455 bbls of Lightning 17 frac

fluid. Treated @ ave pressure of 3215 w/ ave rate of 45 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2824 w/ 1.0FG. 5 min was 2310. 10 min was 2195. 15 min was 2075. Leave pressure on well. 3022 Bbls EWTR. RU WLT. RIH w/ frac plug & 4', 5', 4' perf guns. Set plug @ 4750'. Perforate GB6 sds @ 4648-52', 4638-43', GB4 sds @ 4592-96' w/ 3 spf for total of 39 shots. SIFN.

**Daily Cost:** \$0

**Cumulative Cost:** \$107,781

**12/4/2009 Day: 3**

**Completion**

NC #2 on 12/4/2009 - Finish frac. Flow well back. MIRUSU. Set kill plug. - Thaw out BOP's. RU BJ Services. BJ broke down. Open well w/ 1437 psi on casing. GB6 sds broke down @ 2370 psi back to 2228 psi w/ 3 bbls of water @ 3 bpm. ISIP was 1979 w/ 1.87FG. 1 min was 1814. 4 min was 1708. Pump 30 gals of Techni Hib chemical @ 4% by volume. Treated @ ave pressure of 3071 w/ ave rate of 45 BPM w/ 8 ppg of sand. Frac w/ 73,363#'s of 20/40 sand in 546 bbls Lightning 17 frac fluid. ISIP was 2769 w/ 1.04FG. 5 min was 2493. 10 min was 2400. 15 min was 2375. 3568 bbls EWTR. RD BJ & WLT. Flow well back on 20/64 choke. Well flowed for 5 hours & turned to oil & gas w/ 750 bbls rec'd. Shut well in. RU Perforators LLC WLT & lubricator. Open well w/ 600 psi on casing in 20 minutes. RIH w/ Weatherford 5-1/2" solid composite plug & set @ 4490'. 2818 bbls EWTR. SIFN.

**Daily Cost:** \$0

**Cumulative Cost:** \$173,222

**12/7/2009 Day: 4**

**Completion**

NC #2 on 12/7/2009 - Pick up tbq. - Hot oiler had thawed wellhead. Open well. Csg was blowing gas & oil. Bleed off gas. ND BOP & breakout NPC frac head. MU wellhead flange. NU BOP. RU workfloor. MU Weatherford 4 3/4" button bit. TIH w/ tbq. Picking up tbq off of pipe racks. Get in hole w/ 136 jts 2 7/8" tbq & tag kill plug. RU power swivel & pump lines. SDFN

**Daily Cost:** \$0

**Cumulative Cost:** \$183,397

**12/9/2009 Day: 6**

**Completion**

NC #2 on 12/9/2009 - Drill out plugs. - Open well. RU pump lines & power swivel. Power swivel was leaking hydraulic fluid. Wait on power swivel from town. RU second power swivel. Tag plug. Catch circulation. Clean out sand (60') tag plug. Drill out kill plug. After drilling out plug. CSG started to blow oil & gas. Continue to circulate out gas & oil. SD pump to check flow. Flowed back 100 bbls oil & wtr mix to swab tank in 45 min. Well made approx 200 bbls wtr after drilling out plug. Shut in well. - Wait on hot oiler to thaw well. Check pressure. CSG 900 psi. TBG 100 psi. Open well to swab tank. RU pump. Well flowing while circulating. Pumped 80 bw down tbq. Return 350 bbls oil & wtr. RU swivel. Cont TIH while picking up tbq. Tag CBP @ 4750'. Drill out plug. Get through plug. Cont TIH w/ tbq to next plug. Tag sand @ 5215'. Clean out to CBP @ 5220'. Drill on plug for 20 min. Circulate clean. SDFN - Wait on hot oiler to thaw well. Check pressure. CSG 900 psi. TBG 100 psi. Open well to swab tank. RU pump. Well flowing while circulating. Pumped 80 bw down tbq. Return 350 bbls oil & wtr. RU swivel. Cont TIH while picking up tbq. Tag CBP @ 4750'. Drill out plug. Get through plug. Cont TIH w/ tbq to next plug. Tag sand @ 5215'. Clean out to CBP @ 5220'. Drill on plug for 20 min. Circulate clean. SDFN - Open well. RU pump lines & power swivel. Power swivel was leaking hydraulic fluid. Wait on power swivel from town. RU second power swivel. Tag plug. Catch circulation. Clean out sand (60') tag plug. Drill out kill plug. After drilling out plug. CSG started to blow oil & gas. Continue to circulate out gas & oil. SD pump to check flow. Flowed back 100 bbls oil & wtr mix to swab tank in 45 min. Well made approx 200 bbls wtr after

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drilling out plug. Shut in well.

**Daily Cost:** \$0

**Cumulative Cost:** \$196,481

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**12/10/2009 Day: 7****Completion**

NC #2 on 12/10/2009 - Drill out plugs. - Wait on hot oiler to thaw BOP & tbg. Check pressure. CSG 730 psi. TBG 500 PSI. RIH w/ tbg. Tag remainder of CBP #2 @ 5220'. Drill out plug. Cont TIH to next CBP. Tag CBP #3 @ 5640'. Drill out CBP. Cont TIH w/ tbg to next CBP. Tag CBP @ 5640'. Drill out CBP. Cont TIH w/ tbg to next CBP. Tag sand @ 5770'. 40' sand on top of CBP. Clean out sand to CBP #4 @ 5810'. Drill out CBP. Cont TIH w/ tbg to next CBP. Tag sand @ 6100'. Clean out sand to CBP #5 @ 6130'. Drill on CBP for 30 min. Circulate clean. SDFN

**Daily Cost:** \$0

**Cumulative Cost:** \$205,074

---

**12/11/2009 Day: 8****Completion**

NC #2 on 12/11/2009 - Drill out last CBP. Clean out to PBTD. Flow well. Kill well. TOOH w/ tbg. - Wait on hot oiler to thaw BOP & tbg. Check well pressure. CSG 450. TBG 400. Cont drill out last CBP. Drill out plug. Cont TIH w/ tbg to clean out to PBTD. Tag sand @ 6414'. Drill out remainder of last plug. Clean out sand to PBTD @ 6504'. Circulate clean. CSG flowing wtr lightly. While rigging up swab equipment. CSG unloaded wtr & started to flow oil. Send up flow line to production tank. CSG flowed 80 bbls in 1 hr. TIH w/ tbg to tag sand. No new sand. RU pump to kill well. Circulate wellbore w/ 180 bbls 10# brine wtr. Open well to check flow. Well was standing dead. LD excess tbg. TOOH w/ tbg. Get out of hole w/ 156 jts 2 7/8" J-55 tbg. Leave 40 jts tbg in hole for kill string. SDFW

**Daily Cost:** \$0

**Cumulative Cost:** \$218,201

---

**12/14/2009 Day: 9****Completion**

NC #2 on 12/14/2009 - Kill well. Round trip tbg - Hot oiler had thawed BOP. Check pressure. TBG 300 psi. CSG 300 psi. Open well. Well flowing up tbg & csg. RU pump. Attempt to kill well w/ 120 bbls 10# brine wtr. Check for flow. Well still flowing. Wait on more brine. Pump 100 bbls brine. Check for flow. Well standing dead. TOOH w/ tbg. MU btm hole assembly & TIH w/ tbg detail as follows. NC, 2 jts 2 7/8" j-55 tbg, PSN, 2 jts tbg, TAC, 194 jts tbg. Get in hole w/ tbg. SDFN

**Daily Cost:** \$0

**Cumulative Cost:** \$226,845

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**12/16/2009 Day: 11****Completion & MINING**

NC #2 on 12/16/2009 - Kill well. Land tbg. PU rods - Check pressure. CSG 65 psi. TBG 50 psi. Open well. Well had light flow when first opened started to flow stronger while bringing oil. RU pump to kill well. Pump 220 bbls brine @ 150°. Check well flow. Was still flowing oil & water. Wait on more brine. Pump 160 bbls brine @ 40°. Check well flow. Still slowly flowing wtr. ND BOP. MU wellhead bonnet. Land tbg on wellhead flange w/ 18000# tension. X-over to rod equipment. PU & prime new Central Hydraulic 2 1/2" x 1 3/4" x 21' x 24' RHAC pump. PU 4 - 1 1/2" wt bars & 110 - 7/8" 4 per guided rods. SDFN - Thaw well. Check pressure. CSG 350 psi. TBG 300 psi. Pump 160 bbls brine wtr w/ hot oiler. Returning oil & gas (120 bbls). 40 bbls w trace of brine. Attempt to set TAC. TAC would not set. Work TAC. While working TAC. CSG started to flow w/ wtr, oil & gas mix. Cont to work TAC w/ waiting on more brine wtr. Pump

60 bbls down tbg. Was returning oil & gas. Reverse circulation down csg w/ 120 bbls brine. Well was flowing wtr up both tbg & csg. Pump 30 bbls down tbg & shut in for 5 min. Slowly bleed gas off of csg. Open well. Well was standing dead. Attempt to set TAC. Still will not set. TOO H w/ tbg. Change out TAC. TIH w/ tbg. Set TAC. SDFN - Check pressure. CSG 65 psi. TBG 50 psi. Open well. Well had light flow when first opened started to flow stronger while bringing oil. RU pump to kill well. Pump 220 bbls brine @ 150°. Check well flow. Was still flowing oil & water. Wait on more brine. Pump 160 bbls brine @ 40°. Check well flow. Still slowly flowing wtr. ND BOP. MU wellhead bonnet. Land tbg on wellhead flange w/ 18000# tension. X-over to rod equipment. PU & prime new Central Hydraulic 2 1/2" x 1 3/4" x 21' x 24' RHAC pump. PU 4 - 1 1/2" wt bars & 110 - 7/8" 4 per guided rods. SDFN - Thaw well. Check pressure. CSG 350 psi. TBG 300 psi. Pump 160 bbls brine wtr w/ hot oiler. Returning oil & gas (120 bbls). 40 bbls w trace of brine. Attempt to set TAC. TAC would not set. Work TAC. While working TAC. CSG started to flow w/ wtr, oil & gas mix. Cont to work TAC w/ waiting on more brine wtr. Pump 60 bbls down tbg. Was returning oil & gas. Reverse circulation down csg w/ 120 bbls brine. Well was flowing wtr up both tbg & csg. Pump 30 bbls down tbg & shut in for 5 min. Slowly bleed gas off of csg. Open well. Well was standing dead. Attempt to set TAC. Still will not set. TOO H w/ tbg. Change out TAC. TIH w/ tbg. Set TAC. SDFN

**Daily Cost:** \$0

**Cumulative Cost:** \$257,481

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**12/17/2009 Day: 12**

**Completion**

NC #2 on 12/17/2009 - Kill well. Continue picking up rods. RDMOSU NC #2. PWOP - Check well pressure. CSG 640 psi. TBG 80 psi. Both tbg & csg flowing oil. RU pump. Pump 50 bbls 10# brine down tbg to attempt to kill tbg. TBG standing dead. Continue TIH picking up rods. Get in hole w/ rod detail as follows. 250 - 7/8" 4 per guided rods & 4 - 1 1/2" wt bars. Space out pump w/ 1 - 4' x 7/8" pony sub & 1 1/2" x 30' polished rod. RU pumping unit. Fill & test tbg to 200 psi w/ 5 bw. Stroke test pump to 800 psi w/ unit. RDMOSU NC #2. Well flowed 250 bbls up csg w/ TIH w/ rods. PWOP @ 1:30 PM W/ 144" SL @ 7 SPM FINAL REPORT! EST FLUID TO RECOVER 1493 BBLS **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$295,946

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**Pertinent Files: Go to File List**

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DIV. OF OIL, GAS & MINING



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**SUBMIT IN TRIPLICATE - Other Instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630

Myton, UT 84052

3b. Phone (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

657 FNL 1667 FEL

NWNE Section 34 T8S R16E

5. Lease Serial No.

USA UTU-16535

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

GMBU

8. Well Name and No.

FEDERAL I-34-8-16

9. API Well No.

4301333871

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

| TYPE OF SUBMISSION                                    | TYPE OF ACTION                               |   |  |   |
|---|--|---|--|---|
| <input type="checkbox"/> Notice of Intent             | <input type="checkbox"/> Acidize             | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off         |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing        | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity         |
| <input type="checkbox"/> Final Abandonment            | <input type="checkbox"/> Casing Repair       | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete                | <input checked="" type="checkbox"/> Other _____ |
|   | <input type="checkbox"/> Change Plans        | <input type="checkbox"/> Plug & Abandon   | <input type="checkbox"/> Temporarily Abandon       | Weekly Status Report                            |
|   | <input type="checkbox"/> Convert to Injector | <input type="checkbox"/> Plug Back        | <input type="checkbox"/> Water Disposal            |   |

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomple horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomple in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The above subject well was completed on 12-17-09, attached is a daily completion status report.

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DIV. OF OIL, GAS & MINING

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Lucy Chavez-Naupoto

Signature

Title

Administrative Assistant

Date

12/22/2009

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0137  
Expires: July 31, 2010

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other  
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resrv.,  
Other: \_\_\_\_\_

2. Name of Operator  
NEWFIELD EXPLORATION COMPANY

3. Address  
1401 17TH ST. SUITE 1000 DENVER, CO 80202

3a. Phone No. (include area code)  
(435)646-3721

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*

At surface 657' FNL & 1967' FEL (NW/NE) SEC. 34, T8S, R16E

At top prod. interval reported below 1244' FNL & 1417' FEL (NW/NE) (UTU-16535)

At total depth 1534' FNL & 1142' FEL (SE/NE) (UTU-16535)

14. Date Spudded  
10/14/2009

15. Date T.D. Reached  
11/18/2009

16. Date Completed 12/17/2009  
☐ D & A ☒ Ready to Prod.

18. Total Depth: MD 6555'  
TVD 6414' 25

19. Plug Back T.D.: MD 6445'  
TVD 6310

20. Depth Bridge Plug Set: MD  
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
DUAL IND GRD, SP, COMP. DENSITY, COMP. NEUTRON, GR, CALIPER, CMT BOND

22. Was well cored? ☒ No ☐ Yes (Submit analysis)  
Was DST run? ☒ No ☐ Yes (Submit report)  
Directional Survey? ☐ No ☒ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

| Hole Size | Size/Grade  | Wt. (#/ft.) | Top (MD) | Bottom (MD) | Stage Cementer Depth | No. of Sks. & Type of Cement | Slurry Vol. (BBL) | Cement Top* | Amount Pulled |
|-----------|-------------|-------------|----------|-------------|----------------------|------------------------------|-------------------|-------------|---------------|
| 12-1/4"   | 8-5/8" J-55 | 24#         | 0        | 322'        |                      | 160 CLASS G                  |                   |             |               |
| 7-7/8"    | 5-1/2" J-55 | 15.5#       | 0        | 6448'       |                      | 280 PRIMLITE                 |                   | 58'         |               |
|           |             |             |          |             |                      | 425 50/50 POZ                |                   |             |               |
|           |             |             |          |             |                      |                              |                   |             |               |
|           |             |             |          |             |                      |                              |                   |             |               |
|           |             |             |          |             |                      |                              |                   |             |               |
|           |             |             |          |             |                      |                              |                   |             |               |
|           |             |             |          |             |                      |                              |                   |             |               |
|           |             |             |          |             |                      |                              |                   |             |               |

24. Tubing Record

| Size   | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) |
|--------|----------------|-------------------|------|----------------|-------------------|------|----------------|-------------------|
| 2-7/8" | EOT @ 6451'    | TA @ 6316'        |      |                |                   |      |                |                   |

25. Producing Intervals

| Formation    | Top | Bottom | 26. Perforation Record | Size | No. Holes | Perf. Status |
|--------------|-----|--------|------------------------|------|-----------|--------------|
| A) See Below |     |        | See Below              |      |           |              |
| B)           |     |        | 4512-6409              |      |           |              |
| C)           |     |        |                        |      |           |              |
| D)           |     |        |                        |      |           |              |

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

| Depth Interval | Amount and Type of Material |
|----------------|-----------------------------|
| See Below      | See Below 4                 |
|                |                             |
|                |                             |
|                |                             |

28. Production - Interval A

| Date First Produced | Test Date            | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method                     |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|---------------------------------------|
| 12/19/09            | 01/01/10             | 24           | →               | 25      | 0       | 29        |                       |             | 2-1/2" x 1-3/4" x 21' x 24' RHAC Pump |
| Choke Size          | Tbg. Press. Flwg. SI | Csg. Press.  | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas/Oil Ratio         | Well Status |                                       |
|                     |                      |              | →               |         |         |           |                       | PRODUCING   |                                       |

28a. Production - Interval B

| Date First Produced | Test Date            | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
|                     |                      |              | →               |         |         |           |                       |             |                   |
| Choke Size          | Tbg. Press. Flwg. SI | Csg. Press.  | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas/Oil Ratio         | Well Status |                   |
|                     |                      |              | →               |         |         |           |                       |             |                   |

\*(See instructions and spaces for additional data on page 2)

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## 28b. Production - Interval C

| Date First Produced | Test Date            | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
|                     |                      |              | →               |         |         |           |                       |             |                   |
| Choke Size          | Tbg. Press. Flwg. SI | Csg. Press.  | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas/Oil Ratio         | Well Status |                   |
|                     |                      |              | →               |         |         |           |                       |             |                   |

## 28c. Production - Interval D

| Date First Produced | Test Date            | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
|                     |                      |              | →               |         |         |           |                       |             |                   |
| Choke Size          | Tbg. Press. Flwg. SI | Csg. Press.  | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas/Oil Ratio         | Well Status |                   |
|                     |                      |              | →               |         |         |           |                       |             |                   |

## 29. Disposition of Gas (Solid, used for fuel, vented, etc.)

USED FOR FUEL ON LOCATION

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

## GEOLOGICAL MARKERS

| Formation | Top | Bottom | Descriptions, Contents, etc. | Name                                  | Top            |
|-----------|-----|--------|------------------------------|---------------------------------------|----------------|
|           |     |        |                              |                                       | Meas. Depth    |
|           |     |        |                              | GARDEN GULCH MRK<br>GARDEN GULCH 1    | 4056'<br>4271' |
|           |     |        |                              | GARDEN GULCH 2<br>POINT 3             | 4391'<br>4667' |
|           |     |        |                              | X MRKR<br>Y MRKR                      | 4923'<br>4955' |
|           |     |        |                              | DOUGALS CREEK MRK<br>BI CARBONATE MRK | 5079'<br>5331' |
|           |     |        |                              | B LIMESTON MRK<br>CASTLE PEAK         | 5462'<br>5994' |
|           |     |        |                              | BASAL CARBONATE                       | 6427'          |

## 32. Additional remarks (include plugging procedure):

Stage 1: Green River Formation (CP5 & BSL) 6346-50', 6366-6404', .36" 3/30 Frac w/ 24558#'s of 20/40 sand in 1449 bbls of Lightning 17 fluid  
 Stage 2: Green River Formation (CP.5) 6028-34', .36" 3/18 Frac w/ 10657#'s of 20/40 sand in 60 bbls of Lightning 17 fluid

Stage 3: Green River Formation (LODC) 5678-5710' .36" 3/33 Frac w/ 160910#'s of 20/40 sand in 673 bbls of Lightning 17 fluid  
 Stage 4: Green River Formation (A3 & A1) 5616-19', 5566-5583' .36" 3/27 Frac w/ 70541#'s of 20/40 sand in 302 bbls of Lightning 17 fluid

Stage 5: Green River Formation (D1) 5118-28' .36" 3/30 Frac w/ 46288#'s of 20/40 sand in 211 bbls of Lightning 17 fluid  
 Stage 6: Green River Formation (GB6 & GB4) 4638-52', 4592-96' .36" 3/39 Frac w/ 73363#'s of 20/40 sand in 294 bbls of Lightning 17 fluid

## 33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)   
 ☐ Geologic Report   
 ☐ DST Report   
 ☒ Directional Survey  
☐ Sundry Notice for plugging and cement verification   
☐ Core Analysis   
☐ Other:

## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) Lucy Chavez-Naupoto

Title Administrative Assistant

Signature

Date 01/06/2010

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

(Form 3160-4, page 2)

**NEWFIELD**



## **NEWFIELD EXPLORATION**

**USGS Myton SW (UT)  
SECTION 34 T8S, R16E  
I-34-8-16**

**Wellbore #1**

**Design: Wellbore #1**

## **Standard Survey Report**

**30 November, 2009**

**HATHAWAY <sup>HB</sup> BURNHAM**  
**DIRECTIONAL & MWD SERVICES**



## HATHAWAY BURNHAM

## Survey Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 34 T8S, R16E  
**Well:** I-34-8-16  
**Wellbore:** Wellbore #1  
**Design:** Wellbore #1

**Local Co-ordinate Reference:** Well I-34-8-16  
**TVD Reference:** I-34-8-16 @ 5606.0ft (ELENBURG 28)  
**MD Reference:** I-34-8-16 @ 5606.0ft (ELENBURG 28)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

|                    |  |                             |                |
|--------------------|--|-----------------------------|----------------|
| <b>Project</b>     | USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA |                             |                |
| <b>Map System:</b> | US State Plane 1983                          | <b>System Datum:</b>        | Mean Sea Level |
| <b>Geo Datum:</b>  | North American Datum 1983                    |                             |                |
| <b>Map Zone:</b>   | Utah Central Zone                            | Using geodetic scale factor |                |

|                              |  |                          |                  |
|------------------------------|--|--------------------------|------------------|
| <b>Site</b>                  | SECTION 34 T8S, R16E, SEC 34 T8S, R16E |                          |                  |
| <b>Site Position:</b>        |  | <b>Northing:</b>         | 7,199,000.00 ft  |
| <b>From:</b>                 | Lat/Long                               | <b>Easting:</b>          | 2,031,000.00 ft  |
| <b>Position Uncertainty:</b> | 0.0 ft                                 | <b>Slot Radius:</b>      | "                |
|                              |  | <b>Latitude:</b>         | 40° 4' 29.106 N  |
|                              |  | <b>Longitude:</b>        | 110° 6' 14.985 W |
|                              |  | <b>Grid Convergence:</b> | 0.89 °           |

|                             |  |                            |                  |
|-----------------------------|--|----------------------------|------------------|
| <b>Well</b>                 | I-34-8-16, SHL LAT: 40 04 47.25, LONG: -110 06 11.25 |                            |                  |
| <b>Well Position</b>        | <b>+N/-S</b>   | <b>Northing:</b>           | 7,200,840.14 ft  |
|                             | <b>+E/-W</b>   | <b>Easting:</b>            | 2,031,261.60 ft  |
| <b>Position Uncertainty</b> | 0.0 ft   | <b>Wellhead Elevation:</b> | 5,606.0 ft       |
|                             |  | <b>Latitude:</b>           | 40° 4' 47.250 N  |
|                             |  | <b>Longitude:</b>          | 110° 6' 11.250 W |
|                             |  | <b>Ground Level:</b>       | 5,594.0 ft       |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | Wellbore #1       |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF200510        | 2009/10/26         | 11.53                  | 65.87                | 52,475                     |

|                          |                              |                   |                   |                          |
|--------------------------|------------------------------|-------------------|-------------------|--------------------------|
| <b>Design</b>            | Wellbore #1                  |                   |                   |                          |
| <b>Audit Notes:</b>      |                              |                   |                   |                          |
| <b>Version:</b>          | 1.0                          | <b>Phase:</b>     | ACTUAL            | <b>Tie On Depth:</b> 0.0 |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (ft)</b> | <b>+N/-S (ft)</b> | <b>+E/-W (ft)</b> | <b>Direction (°)</b>     |
|                          | 0.0                          | 0.0               | 0.0               | 136.70                   |

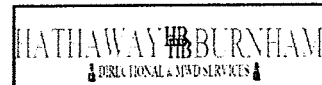
|                       |                        |                          |                  |                    |
|-----------------------|------------------------|--------------------------|------------------|--------------------|
| <b>Survey Program</b> | <b>Date</b> 2009/11/30 |                          |                  |                    |
| <b>From (ft)</b>      | <b>To (ft)</b>         | <b>Survey (Wellbore)</b> | <b>Tool Name</b> | <b>Description</b> |
| 442.0                 | 6,541.0                | Survey #1 (Wellbore #1)  | MWD              | MWD - Standard     |

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 0.0                 | 0.00            | 0.00        | 0.0                 | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 442.0               | 0.26            | 173.47      | 442.0               | -1.0       | 0.1        | 0.8                   | 0.06                  | 0.06                 | 0.00                |
| 473.0               | 0.37            | 163.82      | 473.0               | -1.2       | 0.1        | 0.9                   | 0.39                  | 0.35                 | -31.13              |
| 503.0               | 0.37            | 166.81      | 503.0               | -1.3       | 0.2        | 1.1                   | 0.06                  | 0.00                 | 9.97                |
| 534.0               | 0.37            | 167.62      | 534.0               | -1.5       | 0.2        | 1.3                   | 0.02                  | 0.00                 | 2.61                |
| 565.0               | 0.31            | 146.38      | 565.0               | -1.7       | 0.3        | 1.5                   | 0.45                  | -0.19                | -68.52              |
| 595.0               | 0.66            | 113.83      | 595.0               | -1.8       | 0.5        | 1.7                   | 1.44                  | 1.17                 | -108.50             |
| 626.0               | 1.21            | 120.27      | 626.0               | -2.1       | 1.0        | 2.2                   | 1.80                  | 1.77                 | 20.77               |
| 657.0               | 1.93            | 124.71      | 657.0               | -2.5       | 1.7        | 3.0                   | 2.35                  | 2.32                 | 14.32               |
| 687.0               | 2.72            | 130.29      | 687.0               | -3.3       | 2.6        | 4.2                   | 2.74                  | 2.63                 | 18.60               |
| 718.0               | 3.19            | 130.12      | 717.9               | -4.3       | 3.9        | 5.8                   | 1.52                  | 1.52                 | -0.55               |
| 749.0               | 3.36            | 130.31      | 748.9               | -5.5       | 5.2        | 7.6                   | 0.55                  | 0.55                 | 0.61                |
| 780.0               | 3.12            | 135.93      | 779.8               | -6.7       | 6.5        | 9.3                   | 1.28                  | -0.77                | 18.13               |



## HATHAWAY BURNHAM

## Survey Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 34 T8S, R16E  
**Well:** I-34-8-16  
**Wellbore:** Wellbore #1  
**Design:** Wellbore #1

**Local Co-ordinate Reference:** Well I-34-8-16  
**TVD Reference:** I-34-8-16 @ 5606.0ft (ELENBURG 28)  
**MD Reference:** I-34-8-16 @ 5606.0ft (ELENBURG 28)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

## Survey

| Measured<br>Depth<br>(ft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Vertical<br>Section<br>(ft) | Dogleg<br>Rate<br>(°/100ft) | Build<br>Rate<br>(°/100ft) | Turn<br>Rate<br>(°/100ft) |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| 810.0                     | 2.72               | 142.75         | 809.8                     | -7.8          | 7.5           | 10.8                        | 1.76                        | -1.33                      | 22.73                     |
| 855.0                     | 3.54               | 146.00         | 854.7                     | -9.8          | 8.9           | 13.3                        | 1.86                        | 1.82                       | 7.22                      |
| 901.0                     | 4.52               | 144.72         | 900.6                     | -12.5         | 10.7          | 16.5                        | 2.14                        | 2.13                       | -2.78                     |
| 946.0                     | 5.10               | 140.12         | 945.4                     | -15.5         | 13.1          | 20.2                        | 1.55                        | 1.29                       | -10.22                    |
| 991.0                     | 5.76               | 139.94         | 990.2                     | -18.7         | 15.8          | 24.5                        | 1.47                        | 1.47                       | -0.40                     |
| 1,037.0                   | 6.46               | 139.02         | 1,036.0                   | -22.4         | 19.0          | 29.3                        | 1.54                        | 1.52                       | -2.00                     |
| 1,082.0                   | 7.32               | 138.11         | 1,080.6                   | -26.5         | 22.5          | 34.7                        | 1.93                        | 1.91                       | -2.02                     |
| 1,127.0                   | 7.96               | 135.95         | 1,125.2                   | -30.9         | 26.6          | 40.7                        | 1.56                        | 1.42                       | -4.80                     |
| 1,172.0                   | 8.57               | 136.00         | 1,169.8                   | -35.5         | 31.1          | 47.2                        | 1.36                        | 1.36                       | 0.11                      |
| 1,218.0                   | 9.58               | 136.44         | 1,215.2                   | -40.8         | 36.1          | 54.4                        | 2.20                        | 2.20                       | 0.96                      |
| 1,263.0                   | 10.22              | 136.40         | 1,259.5                   | -46.4         | 41.5          | 62.2                        | 1.42                        | 1.42                       | -0.09                     |
| 1,308.0                   | 10.90              | 137.02         | 1,303.8                   | -52.4         | 47.1          | 70.4                        | 1.53                        | 1.51                       | 1.38                      |
| 1,353.0                   | 11.69              | 137.02         | 1,347.9                   | -58.8         | 53.1          | 79.2                        | 1.76                        | 1.76                       | 0.00                      |
| 1,399.0                   | 12.52              | 136.33         | 1,392.9                   | -65.8         | 59.8          | 88.9                        | 1.83                        | 1.80                       | -1.50                     |
| 1,489.0                   | 12.85              | 135.59         | 1,480.7                   | -80.0         | 73.5          | 108.6                       | 0.41                        | 0.37                       | -0.82                     |
| 1,580.0                   | 14.22              | 136.05         | 1,569.1                   | -95.3         | 88.3          | 129.9                       | 1.51                        | 1.51                       | 0.51                      |
| 1,671.0                   | 14.72              | 138.42         | 1,657.3                   | -112.0        | 103.8         | 152.7                       | 0.85                        | 0.55                       | 2.60                      |
| 1,761.0                   | 14.74              | 138.06         | 1,744.3                   | -129.1        | 119.0         | 175.6                       | 0.10                        | 0.02                       | -0.40                     |
| 1,852.0                   | 14.66              | 137.41         | 1,832.3                   | -146.2        | 134.5         | 198.6                       | 0.20                        | -0.09                      | -0.71                     |
| 1,942.0                   | 13.62              | 136.42         | 1,919.6                   | -162.2        | 149.5         | 220.6                       | 1.19                        | -1.16                      | -1.10                     |
| 2,033.0                   | 13.65              | 135.85         | 2,008.0                   | -177.7        | 164.4         | 242.1                       | 0.15                        | 0.03                       | -0.63                     |
| 2,123.0                   | 13.05              | 135.13         | 2,095.6                   | -192.5        | 179.0         | 262.9                       | 0.69                        | -0.67                      | -0.80                     |
| 2,214.0                   | 12.96              | 134.75         | 2,184.3                   | -207.0        | 193.5         | 283.3                       | 0.14                        | -0.10                      | -0.42                     |
| 2,305.0                   | 12.57              | 139.02         | 2,273.0                   | -221.6        | 207.2         | 303.4                       | 1.12                        | -0.43                      | 4.69                      |
| 2,395.0                   | 12.66              | 139.41         | 2,360.8                   | -236.5        | 220.1         | 323.0                       | 0.14                        | 0.10                       | 0.43                      |
| 2,486.0                   | 12.94              | 141.52         | 2,449.6                   | -252.1        | 232.9         | 343.2                       | 0.60                        | 0.31                       | 2.32                      |
| 2,576.0                   | 13.36              | 139.63         | 2,537.2                   | -267.9        | 245.9         | 363.6                       | 0.67                        | 0.47                       | -2.10                     |
| 2,667.0                   | 12.88              | 141.87         | 2,625.8                   | -283.9        | 259.0         | 384.2                       | 0.77                        | -0.53                      | 2.46                      |
| 2,758.0                   | 12.63              | 138.18         | 2,714.6                   | -299.3        | 271.9         | 404.2                       | 0.94                        | -0.27                      | -4.05                     |
| 2,848.0                   | 12.04              | 135.59         | 2,802.5                   | -313.3        | 285.0         | 423.5                       | 0.90                        | -0.66                      | -2.88                     |
| 2,939.0                   | 12.22              | 131.57         | 2,891.5                   | -326.5        | 298.8         | 442.5                       | 0.95                        | 0.20                       | -4.42                     |
| 3,030.0                   | 12.96              | 131.00         | 2,980.3                   | -339.6        | 313.7         | 462.3                       | 0.82                        | 0.81                       | -0.63                     |
| 3,120.0                   | 14.06              | 130.01         | 3,067.8                   | -353.2        | 329.7         | 483.2                       | 1.25                        | 1.22                       | -1.10                     |
| 3,211.0                   | 13.93              | 131.13         | 3,156.1                   | -367.5        | 346.4         | 505.1                       | 0.33                        | -0.14                      | 1.23                      |
| 3,302.0                   | 13.93              | 129.98         | 3,244.4                   | -381.8        | 363.1         | 526.8                       | 0.30                        | 0.00                       | -1.26                     |
| 3,392.0                   | 13.07              | 134.53         | 3,332.0                   | -395.9        | 378.6         | 547.8                       | 1.52                        | -0.96                      | 5.06                      |
| 3,483.0                   | 12.46              | 134.66         | 3,420.7                   | -410.0        | 393.0         | 567.9                       | 0.67                        | -0.67                      | 0.14                      |
| 3,573.0                   | 13.69              | 138.09         | 3,508.4                   | -424.7        | 407.0         | 588.2                       | 1.62                        | 1.37                       | 3.81                      |
| 3,664.0                   | 12.96              | 137.17         | 3,596.9                   | -440.2        | 421.1         | 609.2                       | 0.84                        | -0.80                      | -1.01                     |
| 3,754.0                   | 14.06              | 136.91         | 3,684.4                   | -455.6        | 435.4         | 630.2                       | 1.22                        | 1.22                       | -0.29                     |
| 3,845.0                   | 13.29              | 134.18         | 3,772.9                   | -471.0        | 450.5         | 651.7                       | 1.10                        | -0.85                      | -3.00                     |
| 3,936.0                   | 12.06              | 134.80         | 3,861.6                   | -485.0        | 464.7         | 671.7                       | 1.36                        | -1.35                      | 0.68                      |
| 4,026.0                   | 11.29              | 138.42         | 3,949.8                   | -498.2        | 477.3         | 689.9                       | 1.18                        | -0.86                      | 4.02                      |
| 4,117.0                   | 11.43              | 137.43         | 4,039.0                   | -511.5        | 489.3         | 707.8                       | 0.26                        | 0.15                       | -1.09                     |
| 4,207.0                   | 11.12              | 138.03         | 4,127.3                   | -524.5        | 501.1         | 725.4                       | 0.37                        | -0.34                      | 0.67                      |
| 4,298.0                   | 11.47              | 140.09         | 4,216.5                   | -538.0        | 512.8         | 743.2                       | 0.59                        | 0.38                       | 2.26                      |
| 4,389.0                   | 13.03              | 140.77         | 4,305.4                   | -552.8        | 525.1         | 762.5                       | 1.72                        | 1.71                       | 0.75                      |
| 4,479.0                   | 13.68              | 145.85         | 4,393.0                   | -569.5        | 537.5         | 783.1                       | 1.49                        | 0.72                       | 5.64                      |
| 4,570.0                   | 12.85              | 143.21         | 4,481.6                   | -586.5        | 549.6         | 803.8                       | 1.13                        | -0.91                      | -2.90                     |
| 4,660.0                   | 12.72              | 137.13         | 4,569.3                   | -601.8        | 562.3         | 823.6                       | 1.50                        | -0.14                      | -6.76                     |
| 4,751.0                   | 12.52              | 136.99         | 4,658.1                   | -616.4        | 575.9         | 843.5                       | 0.22                        | -0.22                      | -0.15                     |
| 4,841.0                   | 12.02              | 135.68         | 4,746.1                   | -630.2        | 589.1         | 862.6                       | 0.64                        | -0.56                      | -1.46                     |
| 4,932.0                   | 12.02              | 135.68         | 4,835.1                   | -643.8        | 602.3         | 881.6                       | 0.00                        | 0.00                       | 0.00                      |
| 5,022.0                   | 12.66              | 137.87         | 4,923.0                   | -657.8        | 615.5         | 900.8                       | 0.88                        | 0.71                       | 2.43                      |



## HATHAWAY BURNHAM

## Survey Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 34 T8S, R16E  
**Well:** I-34-8-16  
**Wellbore:** Wellbore #1  
**Design:** Wellbore #1

**Local Co-ordinate Reference:** Well I-34-8-16  
**TVD Reference:** I-34-8-16 @ 5606.0ft (ELENBURG 28)  
**MD Reference:** I-34-8-16 @ 5606.0ft (ELENBURG 28)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

## Survey

| Measured Depth (ft)  | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|----------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 5,113.0              | 12.28           | 141.48      | 5,011.9             | -672.7     | 628.2      | 920.4                 | 0.95                  | -0.42                | 3.97                |
| 5,203.0              | 12.61           | 140.99      | 5,099.7             | -687.9     | 640.3      | 939.8                 | 0.38                  | 0.37                 | -0.54               |
| 5,294.0              | 11.80           | 142.00      | 5,188.7             | -702.9     | 652.3      | 958.9                 | 0.92                  | -0.89                | 1.11                |
| 5,385.0              | 11.84           | 135.56      | 5,277.8             | -716.9     | 664.6      | 977.5                 | 1.45                  | 0.04                 | -7.08               |
| 5,407.2              | 11.89           | 135.89      | 5,299.5             | -720.2     | 667.8      | 982.1                 | 0.37                  | 0.22                 | 1.46                |
| <b>I-34-8-16 TGT</b> |                 |             |                     |            |            |                       |                       |                      |                     |
| 5,475.0              | 12.04           | 136.86      | 5,365.8             | -730.4     | 677.5      | 996.1                 | 0.37                  | 0.22                 | 1.44                |
| 5,566.0              | 11.60           | 139.32      | 5,454.9             | -744.2     | 689.9      | 1,014.8               | 0.74                  | -0.48                | 2.70                |
| 5,656.0              | 11.95           | 134.64      | 5,543.0             | -757.6     | 702.4      | 1,033.1               | 1.13                  | 0.39                 | -5.20               |
| 5,746.0              | 13.03           | 131.35      | 5,630.9             | -770.9     | 716.7      | 1,052.5               | 1.44                  | 1.20                 | -3.66               |
| 5,834.0              | 11.32           | 140.25      | 5,716.9             | -784.1     | 729.7      | 1,071.0               | 2.88                  | -1.94                | 10.11               |
| 5,927.0              | 10.83           | 139.87      | 5,808.1             | -797.8     | 741.1      | 1,088.9               | 0.53                  | -0.53                | -0.41               |
| 6,018.0              | 12.48           | 135.41      | 5,897.3             | -811.3     | 753.5      | 1,107.2               | 2.06                  | 1.81                 | -4.90               |
| 6,109.0              | 12.04           | 136.49      | 5,986.2             | -825.2     | 767.0      | 1,126.6               | 0.55                  | -0.48                | 1.19                |
| 6,199.0              | 10.77           | 132.09      | 6,074.4             | -837.6     | 779.7      | 1,144.3               | 1.71                  | -1.41                | -4.89               |
| 6,290.0              | 11.38           | 131.46      | 6,163.7             | -849.3     | 792.7      | 1,161.7               | 0.68                  | 0.67                 | -0.69               |
| 6,381.0              | 10.17           | 132.53      | 6,253.1             | -860.7     | 805.4      | 1,178.7               | 1.35                  | -1.33                | 1.18                |
| 6,488.0              | 8.72            | 130.03      | 6,358.7             | -872.3     | 818.5      | 1,196.2               | 1.41                  | -1.36                | -2.34               |
| 6,541.0              | 8.00            | 128.79      | 6,411.1             | -877.2     | 824.5      | 1,203.8               | 1.40                  | -1.36                | -2.34               |

## Wellbore Targets

## Target Name

| - hit/miss target  | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude        | Longitude       |
|--|---------------|--------------|----------|------------|------------|---------------|--------------|-----------------|-----------------|
| - Shape  |               |              |          |            |            |               |              |                 |                 |
| I-34-8-16 TGT  | 0.00          | 0.00         | 5,300.0  | -713.0     | 672.0      | 7,200,137.79  | 2,031,944.59 | 40° 4' 40.204 N | 110° 6' 2.605 W |
| - actual wellpath misses by 8.4ft at 5407.2ft MD (5299.5 TVD, -720.2 N, 667.8 E) |               |              |          |            |            |               |              |                 |                 |
| - Circle (radius 75.0)   |               |              |          |            |            |               |              |                 |                 |

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

# NEWFIELD



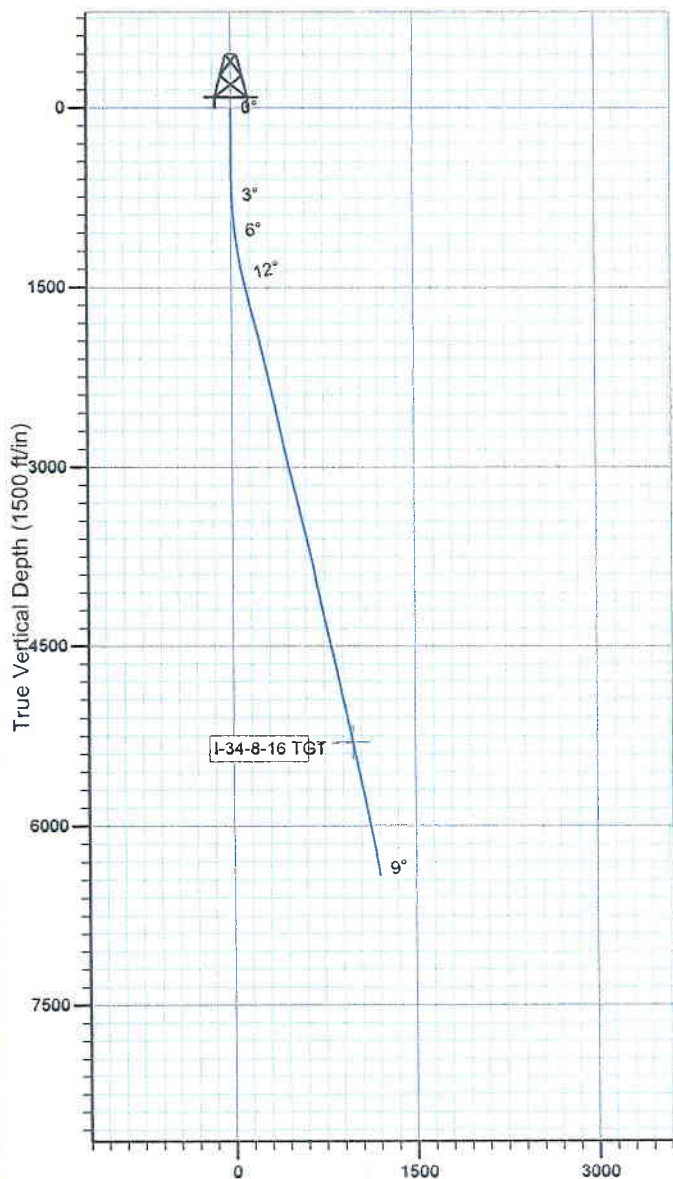
Project: USGS Myton SW (UT)  
 Site: SECTION 34 T8S, R16E  
 Well: I-34-8-16  
 Wellbore: Wellbore #1  
 SURVEY: Wellbore #1

FINAL SURVEY REPORT

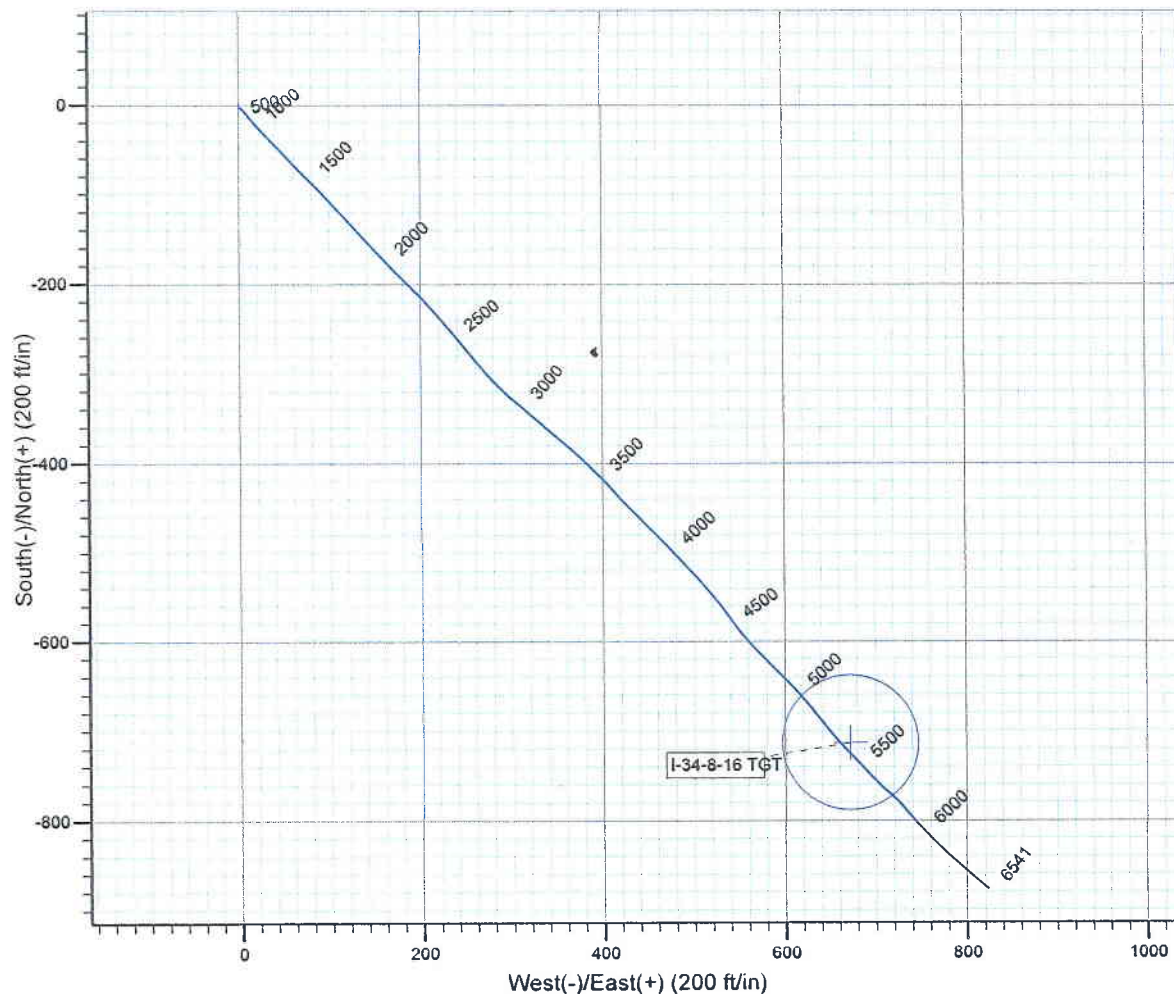


Azimuths to True North  
 Magnetic North: 11.53°

Magnetic Field  
 Strength: 52475.4snT  
 Dip Angle: 65.87°  
 Date: 2009/10/26  
 Model: IGRF200510



Vertical Section at 136.70° (1500 ft/in)



HATHAWAY HB BURNHAM  
 DIRECTIONAL & MWD SERVICES

Design: Wellbore #1 (I-34-8-16/Wellbore #1)

Created By: *Tom Hudson* Date: 19:53, November 30 2009  
 THIS SURVEY IS CORRECT TO THE BEST OF MY  
 KNOWLEDGE AND IS SUPPORTED BY ACTUAL FIELD DATA.